

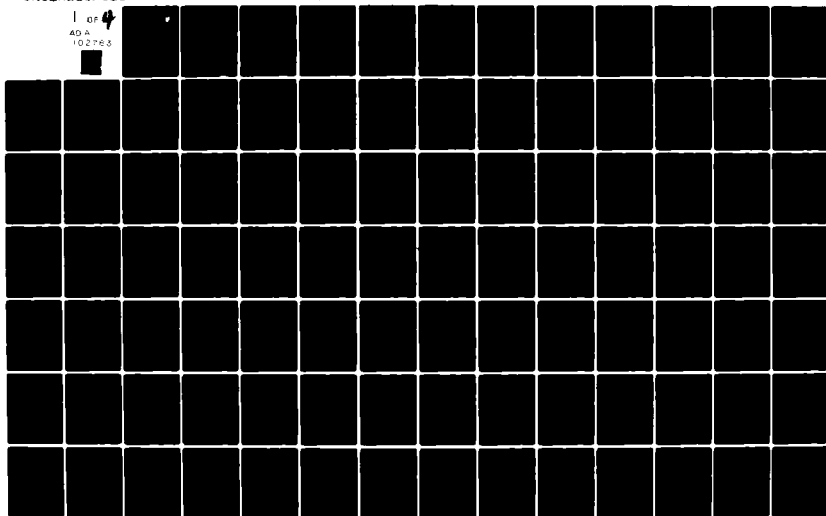
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ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING. VOLUME II. PAR--ETC(U)
JUN 76 R J HANCOCK, F H CLEVELAND F30602-73-C-0380

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RADC-TR-76-186-VOL-2-PT-2 NL

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RADC-TR-76-186, Vol II, Pt 2
Final Technical Report
June 1976



ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING
(Computer Program Flow Charts)

General Dynamics

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ELECTE
AUG 13 1981
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Laboratory Directors' Fund Number 01707310
with Proj. 6512 funds added.

ROME AIR DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
GRIFFISS AIR FORCE BASE, NEW YORK 13441

This report has been reviewed by the RADC Information Office (OI) and is releasable to the National Technical Information Service (NTIS). At NTIS it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

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JOHN P. HUSS
Acting Chief, Plans Office

Initially funded under RADC Laboratory Directors' Funds with Proj. 6512 funds added.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER RADC-TR-76-186, Vol II, Pt 2	2. GOVT ACCESSION NO. AD-A102 783	3. REPORT'S CATALOG NUMBER
4. TITLE (and Subtitle) ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING Computer Program Flow Charts		5. TYPE OF REPORT & PERIOD COVERED Final Technical Report
7. AUTHOR(s) Robert J. Hancock Fred H. Cleveland		8. PERFORMING ORG. REPORT NUMBER N/A
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18. SUPPLEMENTARY NOTES RADC Project Engineer: John C. Cleary (OCSA) Initially funded under RADC Laboratory Directors' Funds with Proj. 6512 funds added.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Radar Simulation Computer Modeling		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This effort is concerned with the development & implementation of a set of digital computer programs that will augment the RADC digital computer radar simulation model, procured under Contr F30602-72-C-0393 (01/07201). The computer programs shall consist of a sequence of subroutines that correspond to separate functions such as a chaff model, target model, propagation effects and clutter model. The original radar simulation model will be expanded to include a bistatic capability and will include ECM and phase coded pulse compression receiver techniques. In addition, an interactive system has been designed for		

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the simulation. Using an interactive display, an engineer would be able to understand what is happening by being able to observe results at several intermediate points in the problem. A picture is worth a thousand words. For example, an antenna pattern or waveform response to a target is more meaningful than a long table of numerical listings. Parts of the simulation were used by RADC for Deep Space Surveillance Radar (DSSR) waveform analysis, generating antenna patterns and tradeoffs involving phase shifter bit-size for the Advanced Space Defense Program (ASDP). The RADC radar simulation model is being used to support Seek Sail, Cobra Judy, Digital Coded Radar and Seek Sentry.

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This report contains Vol I, Pt 1 (Sections 1-7 and 9-10) (Pages 1-1 thru 1-5, 2-1 thru 2-24, 3-1 thru 3-35, 4-1 thru 4-23, 5-1 thru 5-6, 6-1 thru 6-39, 7-1 thru 7-30, 9-1 thru 9-3 and 10-1 thru 10-2).

Vol I, Pt 2 contains Section 8 (Pages 8-1 thru 8-174).

Vol I, Pt 3 contains Section 8 (Pages 8-175 thru 8-418).

Vol II, Pt 1 contains(Sections 1-8 and 10 & 11) (Pages 1-1, 2-1 thru 2-24, 3-1 thru 3-15, 4-1 thru 4-137, 5-1 thru 5-16, 6-1 thru 6-44, 7-1, 8-1 thru 8-26, 10-1 thru 10-4 and 11-1 thru 11-2).

Vol II, Pt 2 contains Sections 9 and 10 (Pages 9-1 thru 9-234 and Pages 10-1 thru 10-4).

Vol III contains Sections 1 thru 6 (Pages 1-1 thru 1-2, 2-1 thru 2-22, 3-1 thru 3-53, 4-1 thru 4-141, 5-1 thru 5-3 and 6-1).

Vol IV, Pt 1 contains Appendices A-K and Appendix M.

Vol IV, Pt 2 contains Appendix L.

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MTIFLT	9-201	9-234
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SECTION 9
RADSIM COMPUTER PROGRAM
FLOW CHARTS

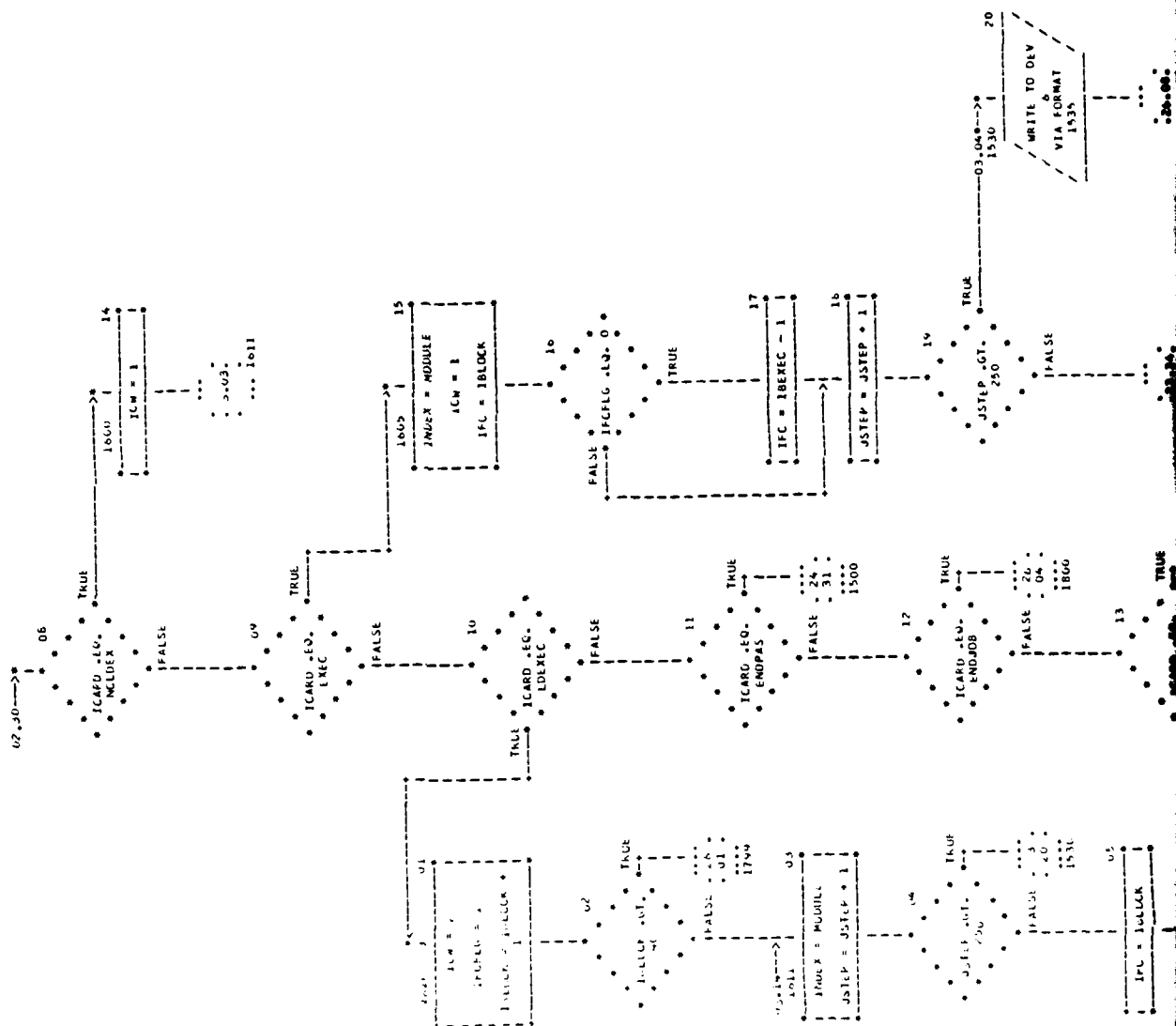
This section includes the flow charts and cross references tables for all the modules of the radar simulation model.

Note that the page numbers referred to in the flow charts at various entry and exit points are those page numbers located in the upper right hand corner. These page numbers along with the box numbers are also referred to in the cross reference tables.



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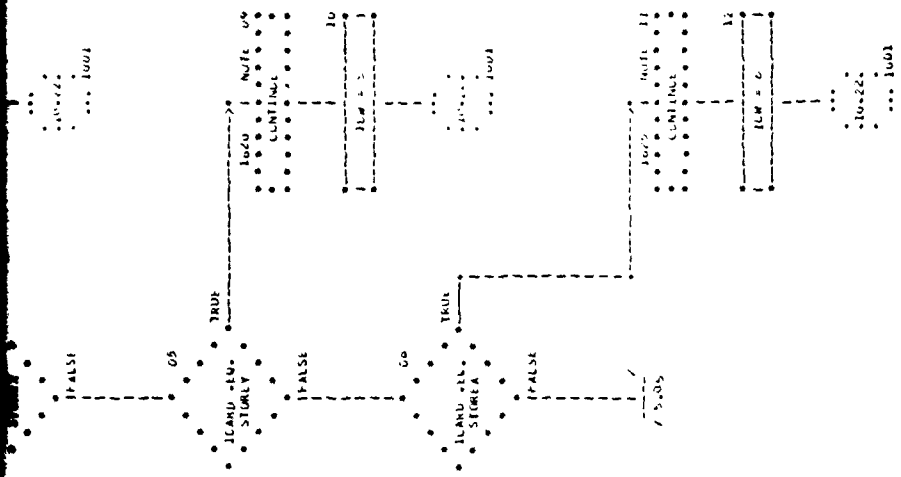
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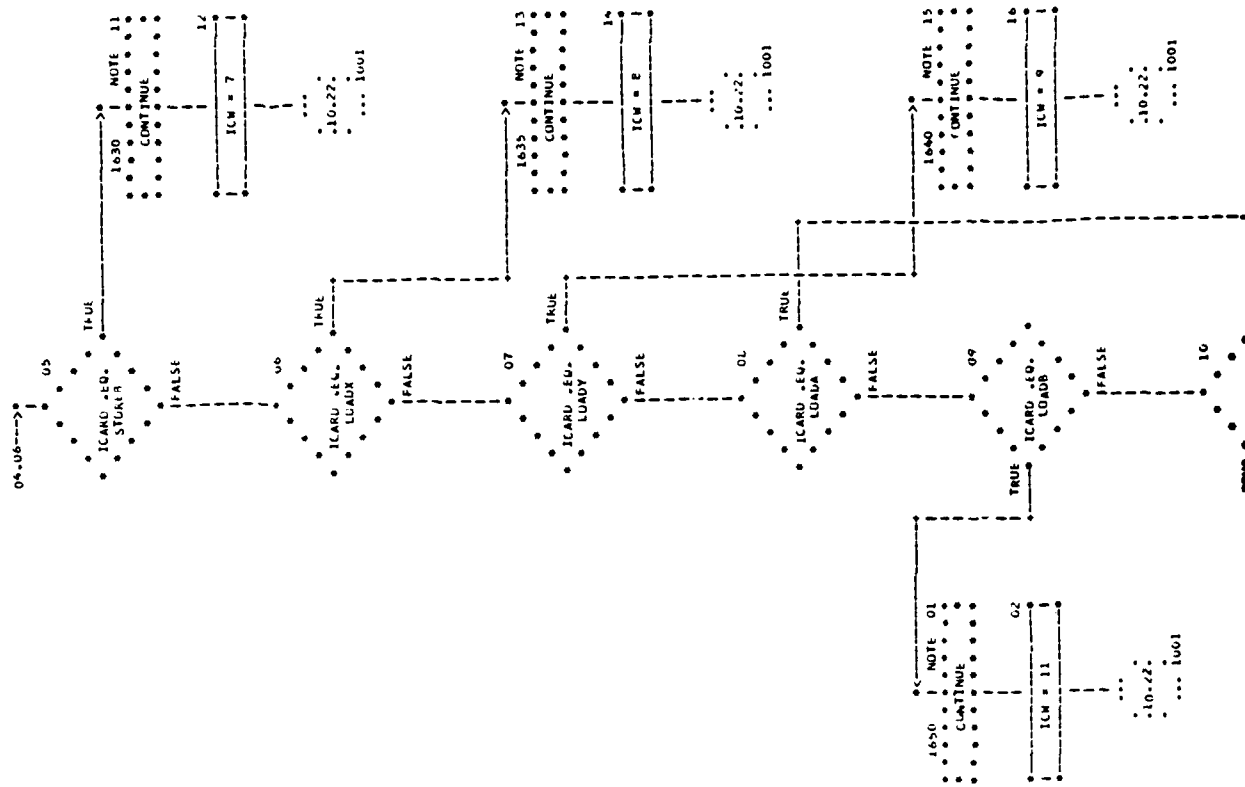
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    01a -- FALSE --> 02((02))
    02 --> 02a[ICARUS - EQ. SKIP]
    02a -- TRUE --> 02b[NULTE]
    02a -- FALSE --> 03((03))
    03 --> 03a[JSTEP = JSTEP + 1]
    03a --> 03b[JPC = III]
    03b --> 04((04))
    04 --> 04a[ICARUS - EQ. STOREX]
    04a -- TRUE --> 04b[NULTE]
    04a -- FALSE --> 05((05))
    05 --> 05a[ICARUS - EQ. STOREY]
    05a -- TRUE --> 05b[NULTE]
    05a -- FALSE --> 06((06))
    06 --> 06a[ICARUS - EQ. STOREZ]
    06a -- TRUE --> 06b[NULTE]
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    05b --> 06c
    06b --> 06c
  
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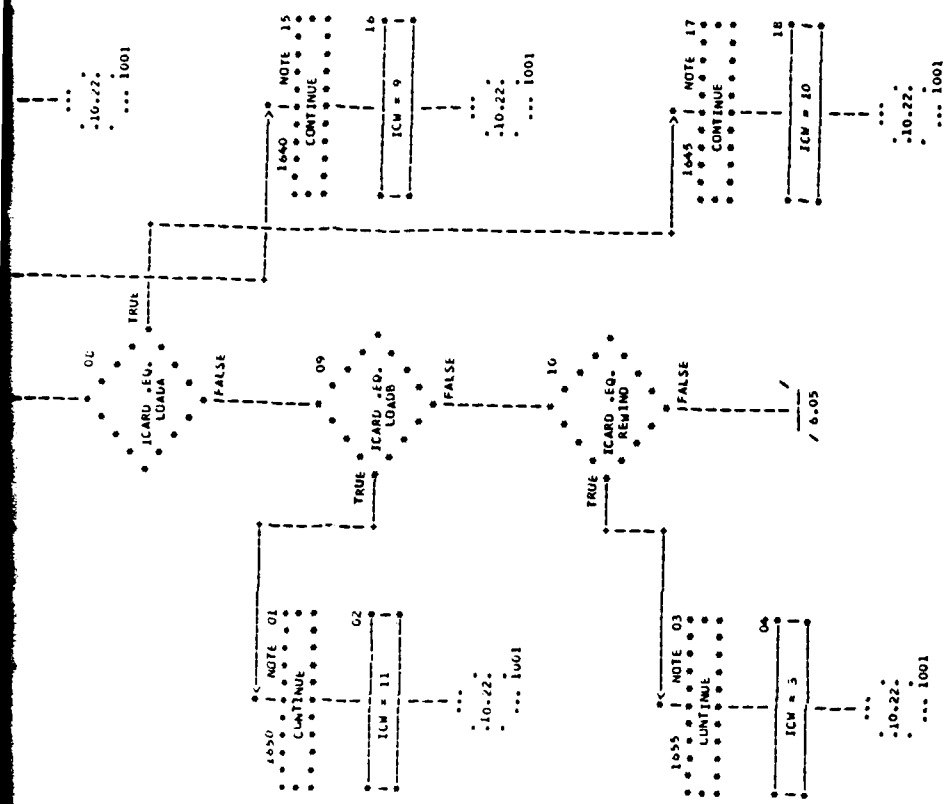


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CHART TITLE - PAGE FOUR

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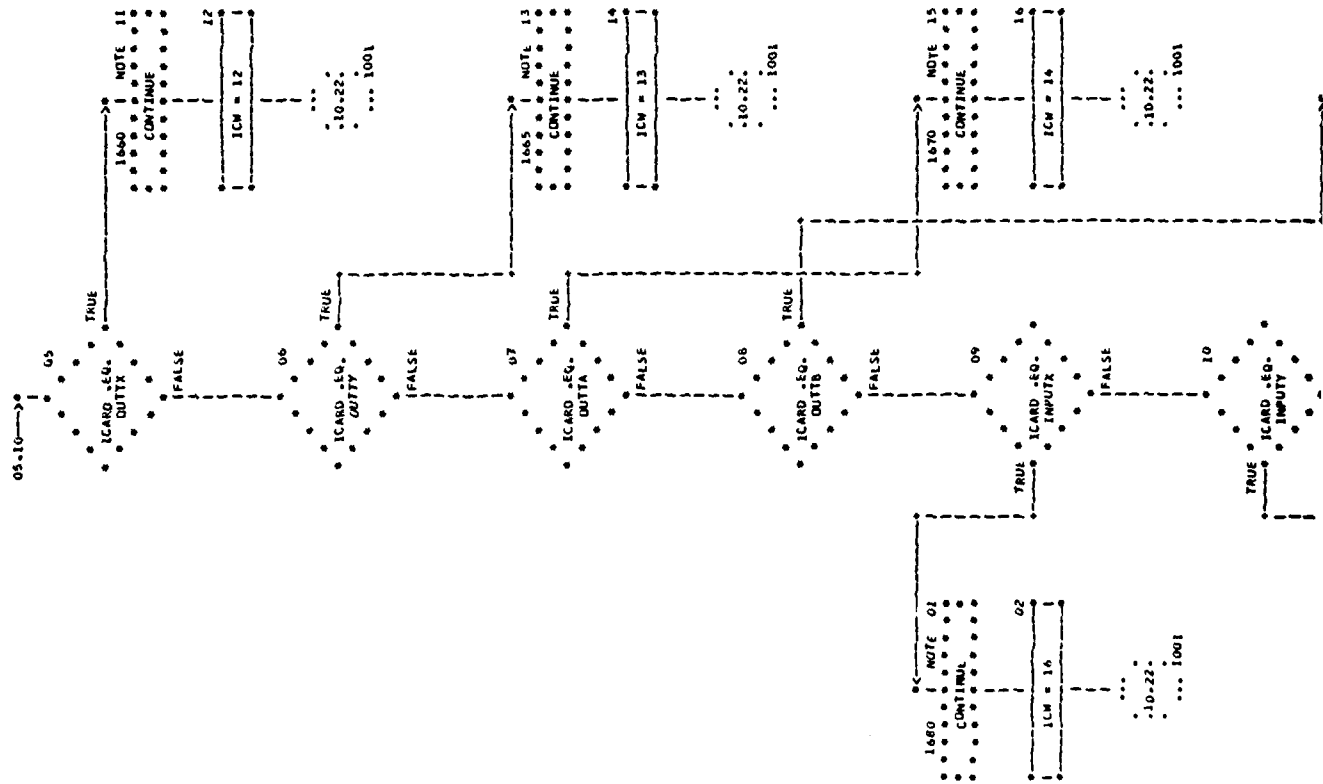


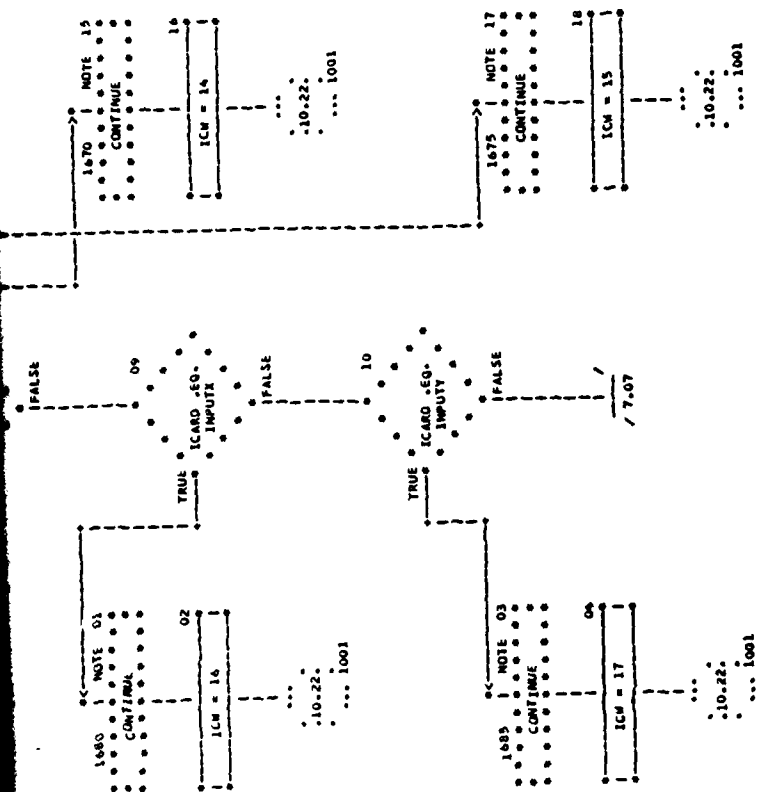
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CHART TITLE - PROCEDURES

9.6

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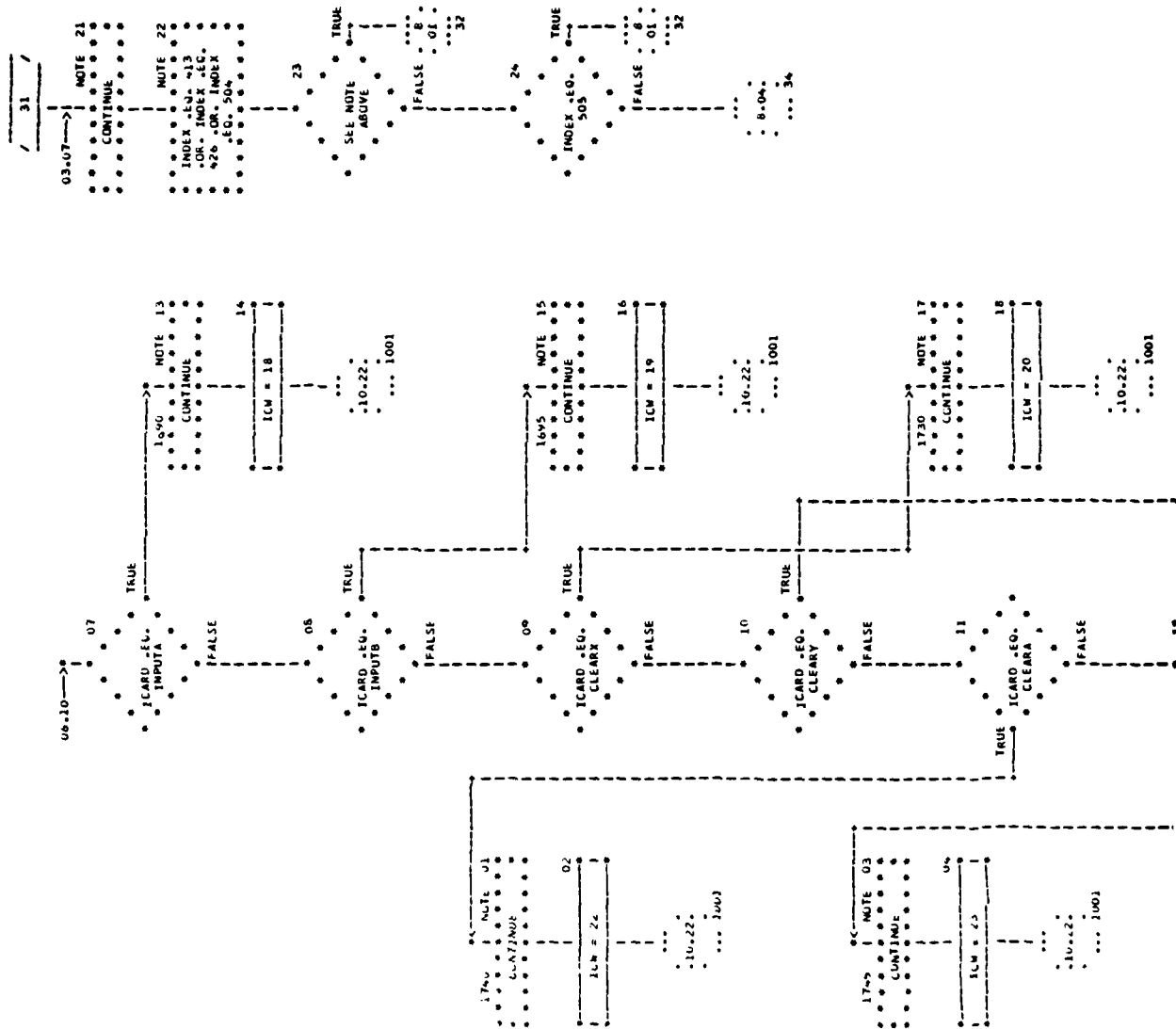


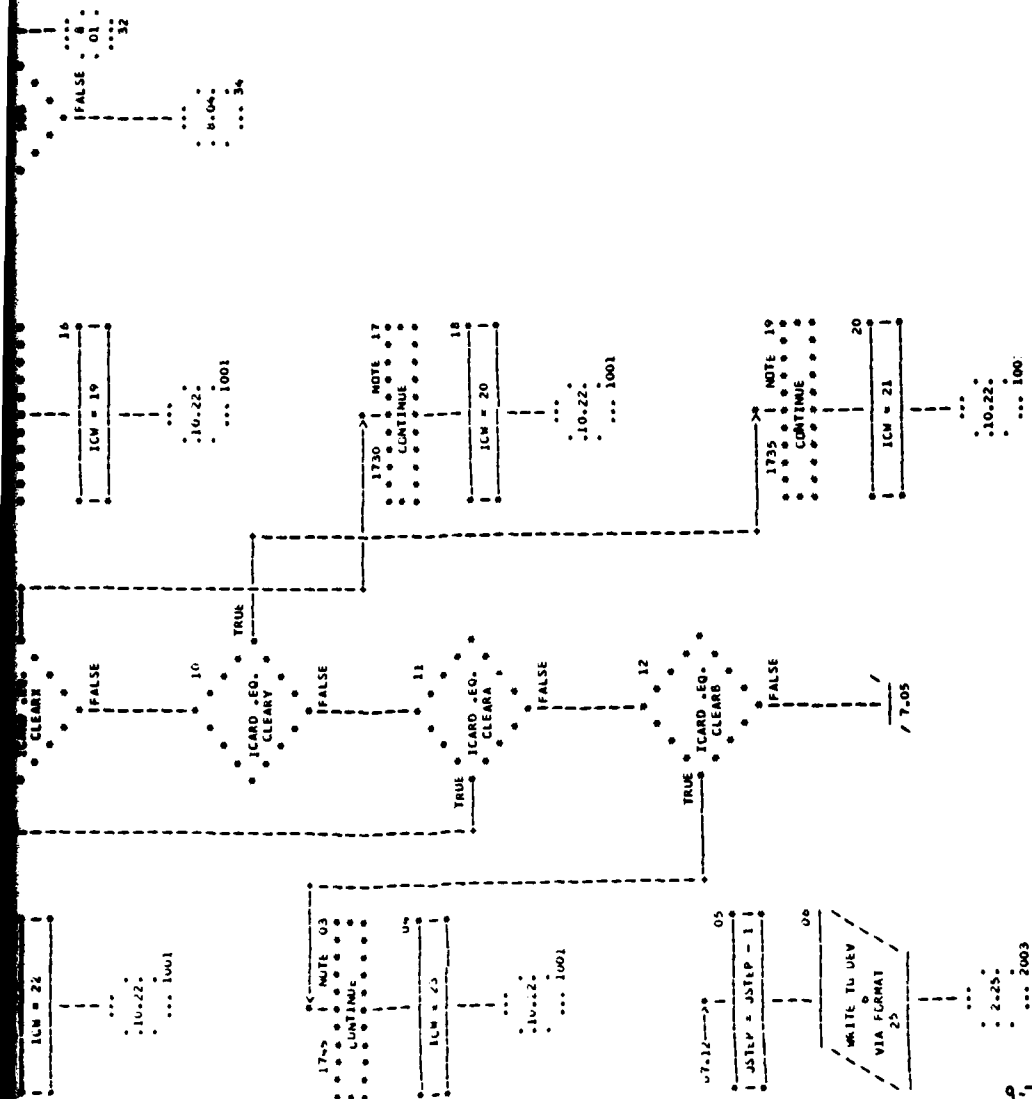


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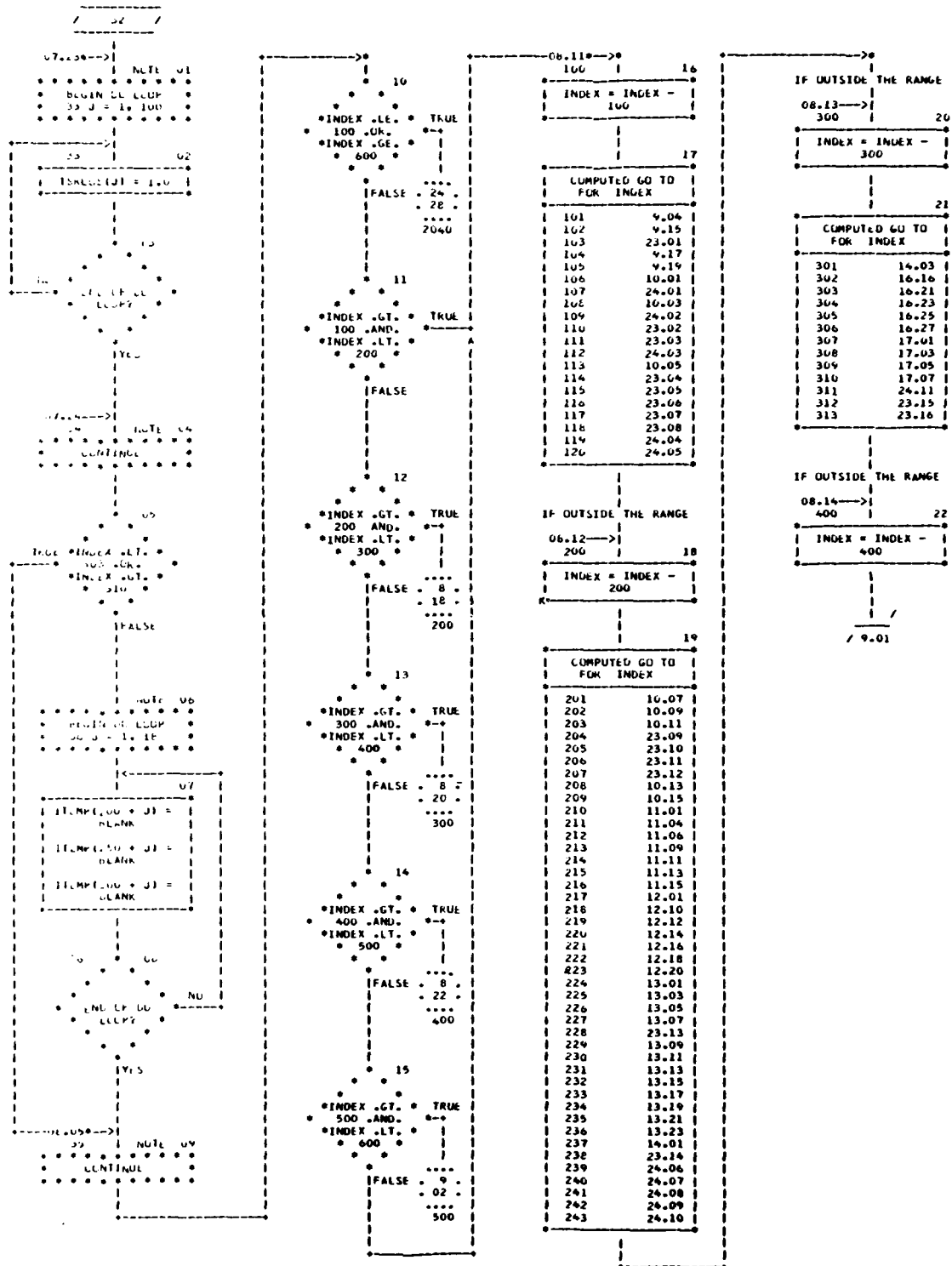




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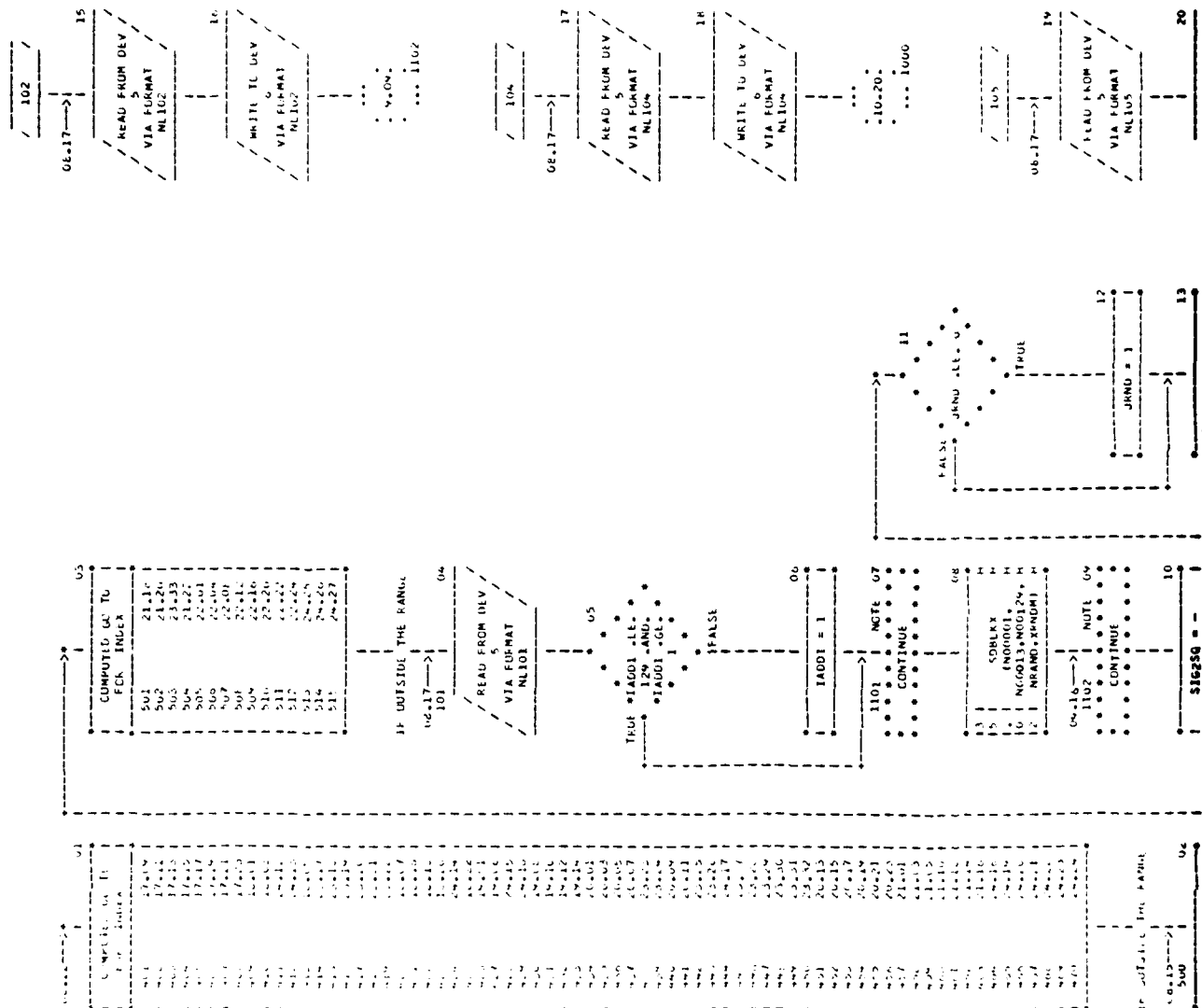
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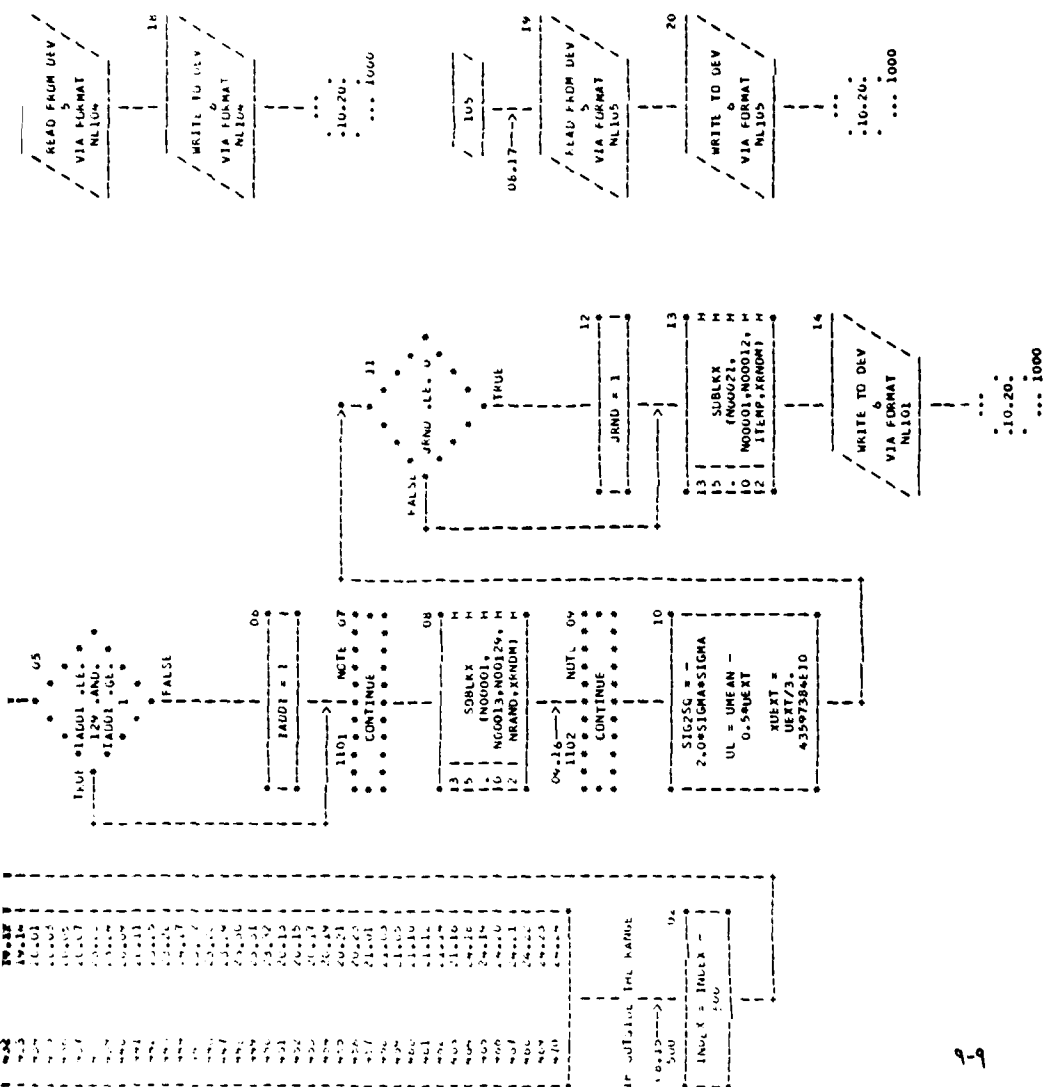


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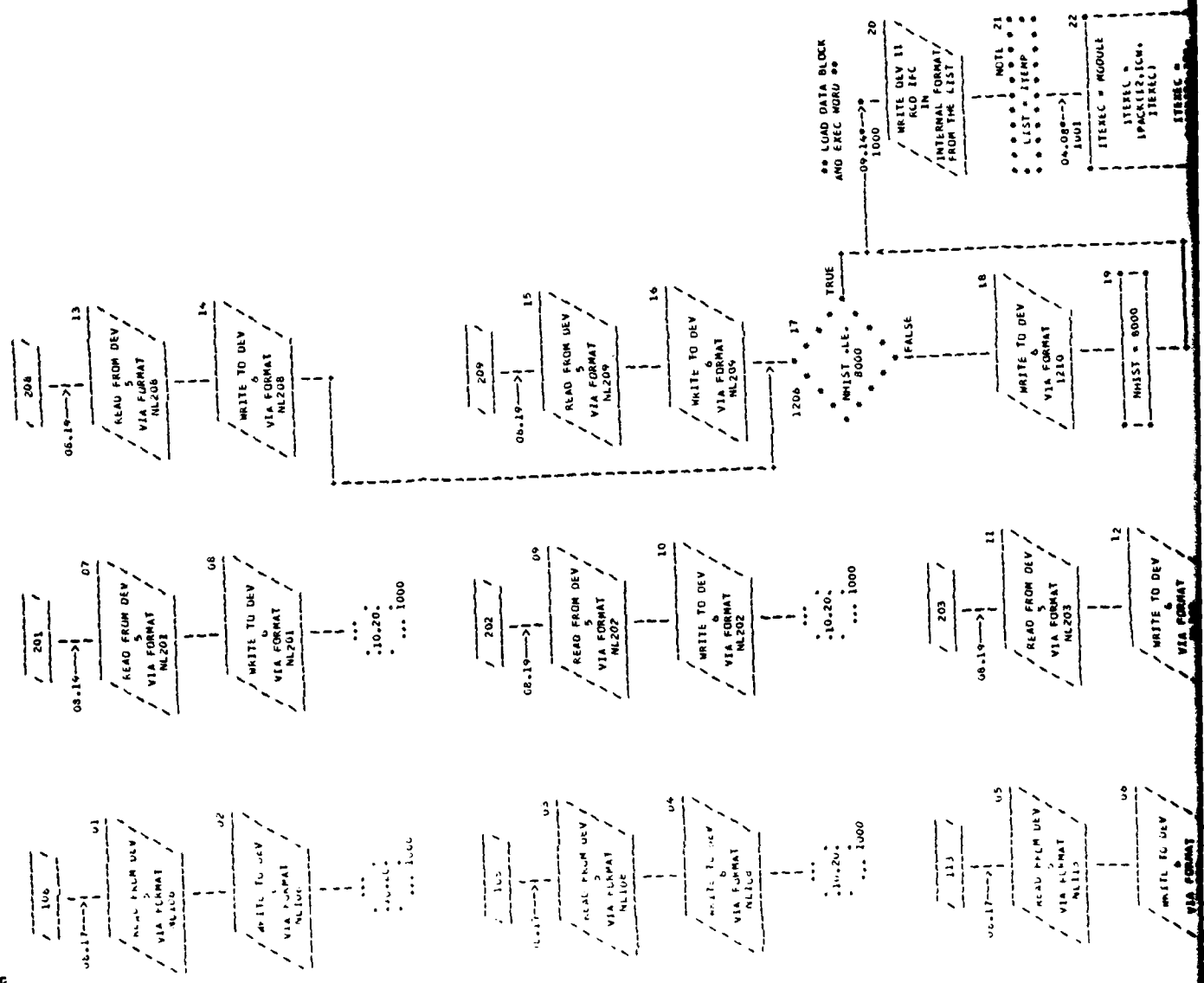




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UPART TITLE - PAGESIMURES

9-10



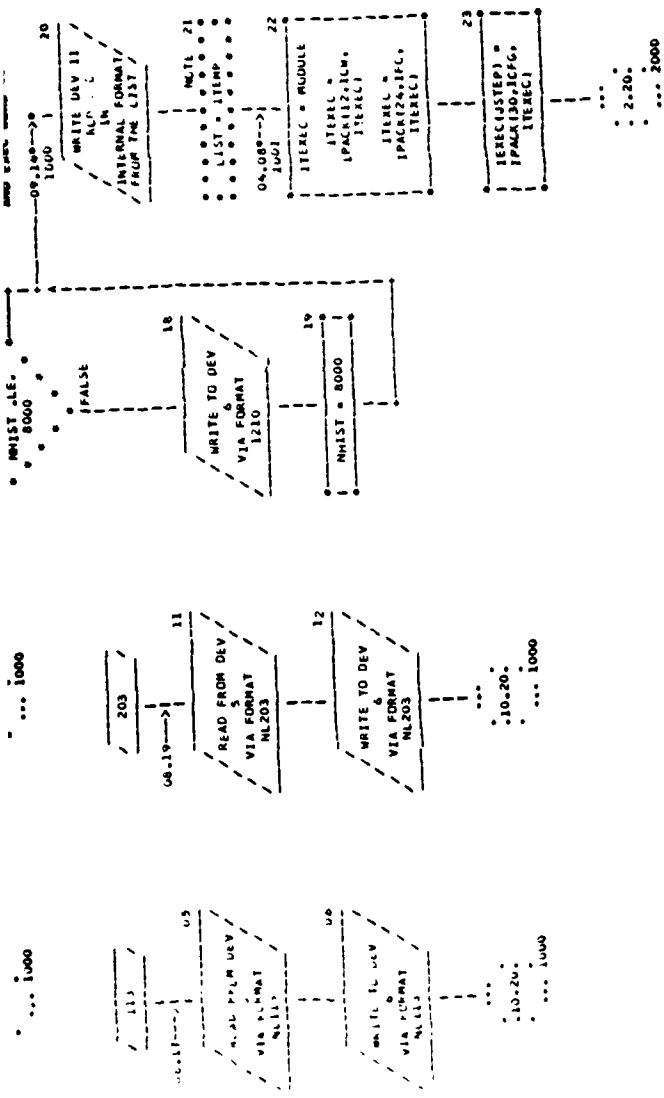
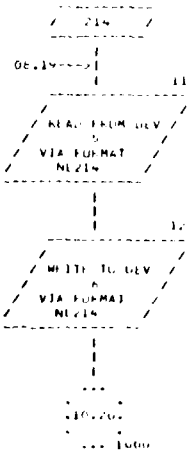
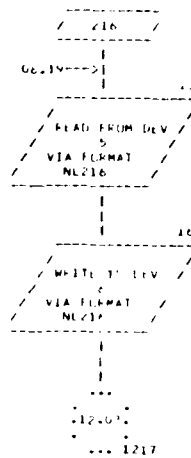
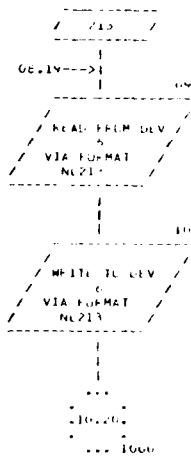
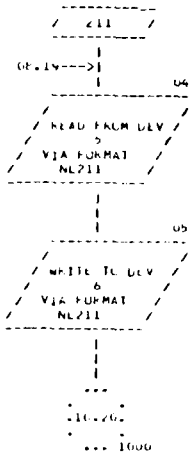
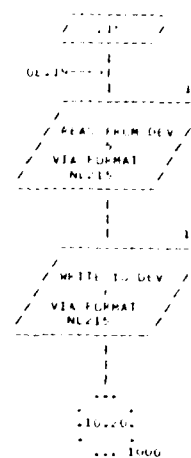
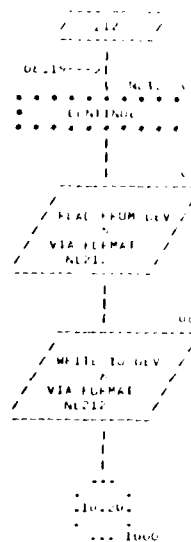
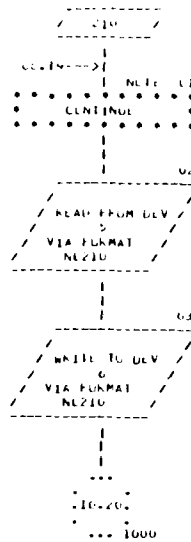
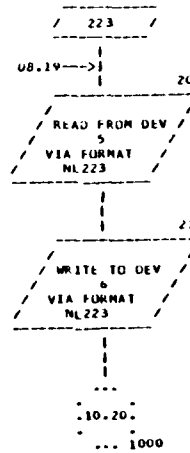


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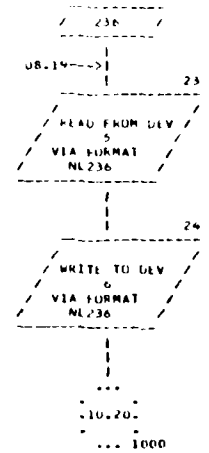
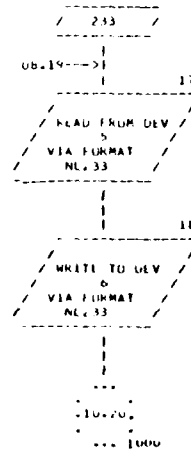
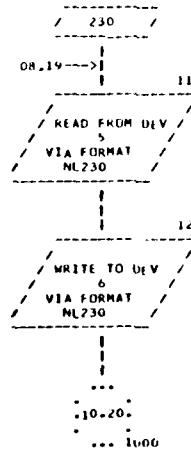
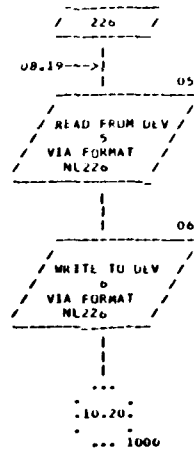
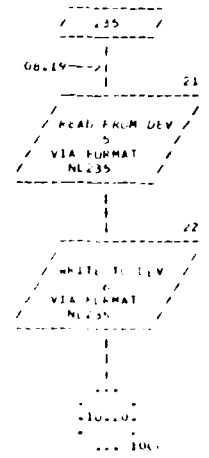
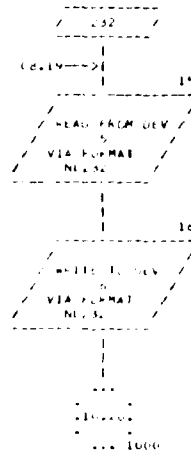
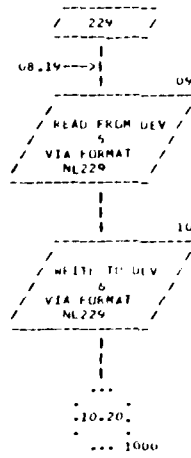
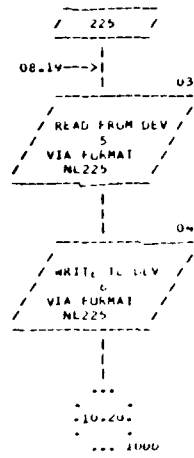
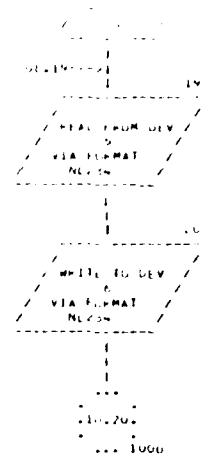
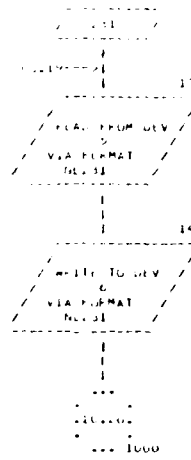
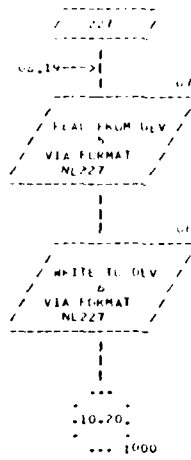
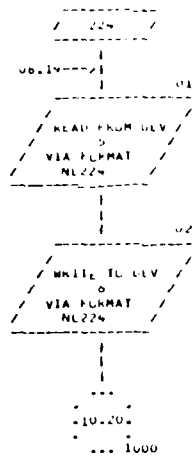


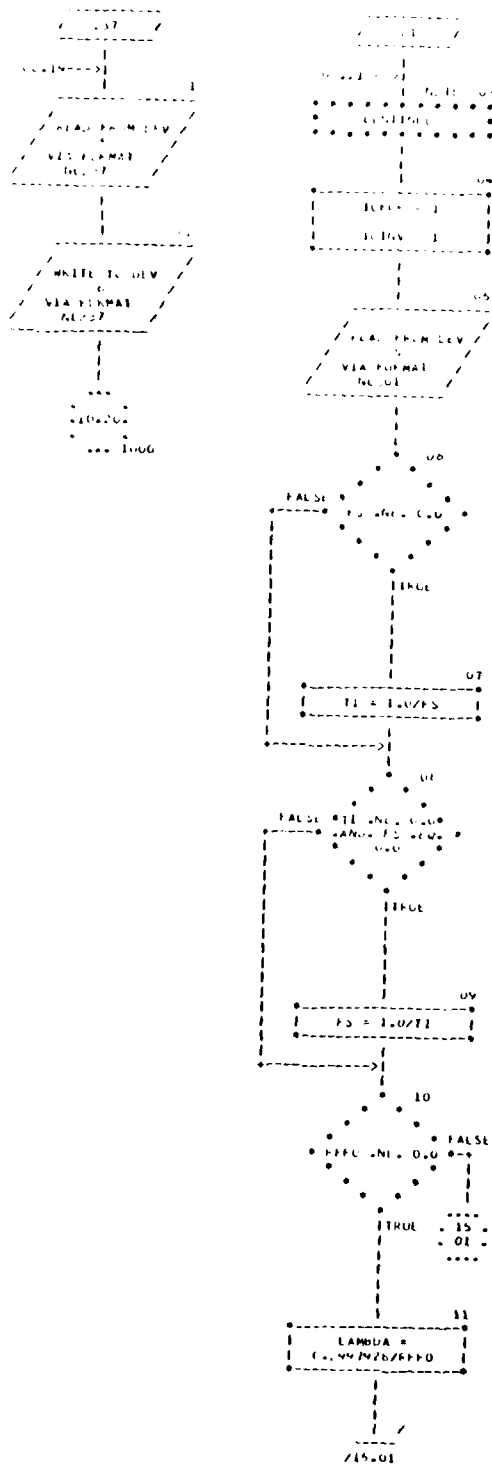


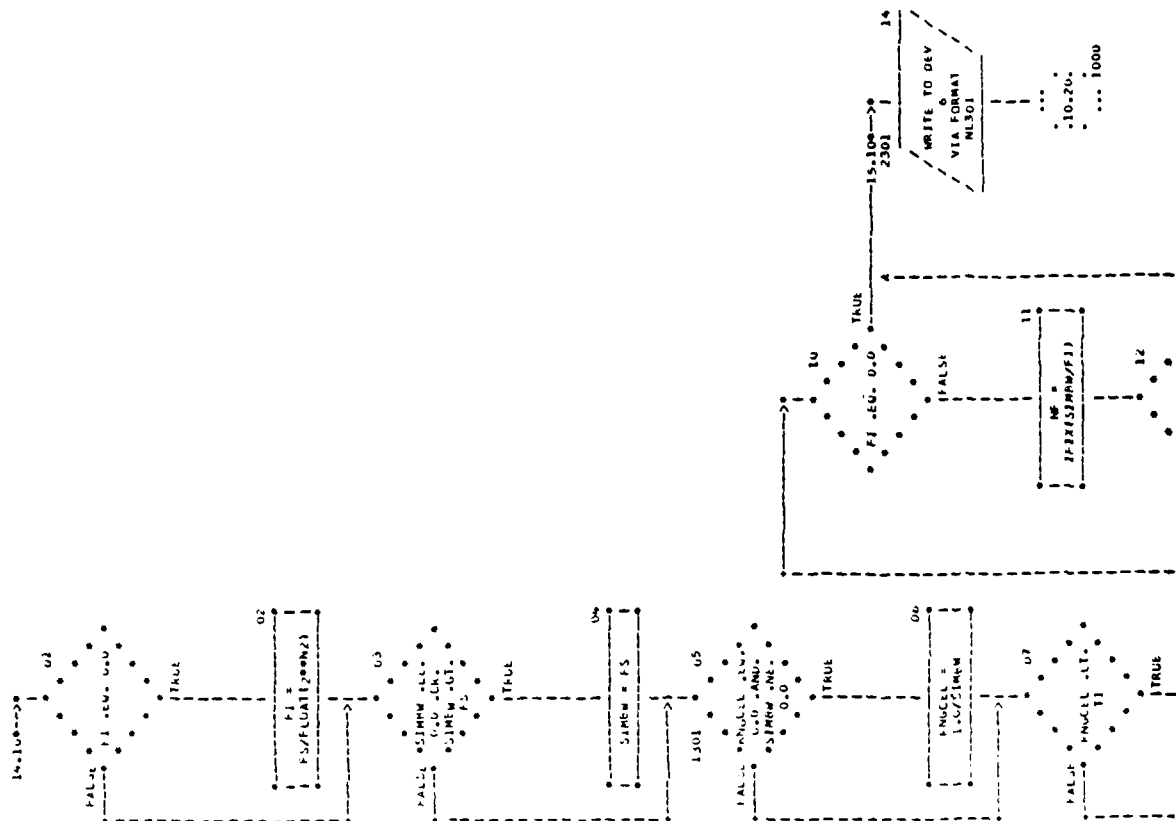
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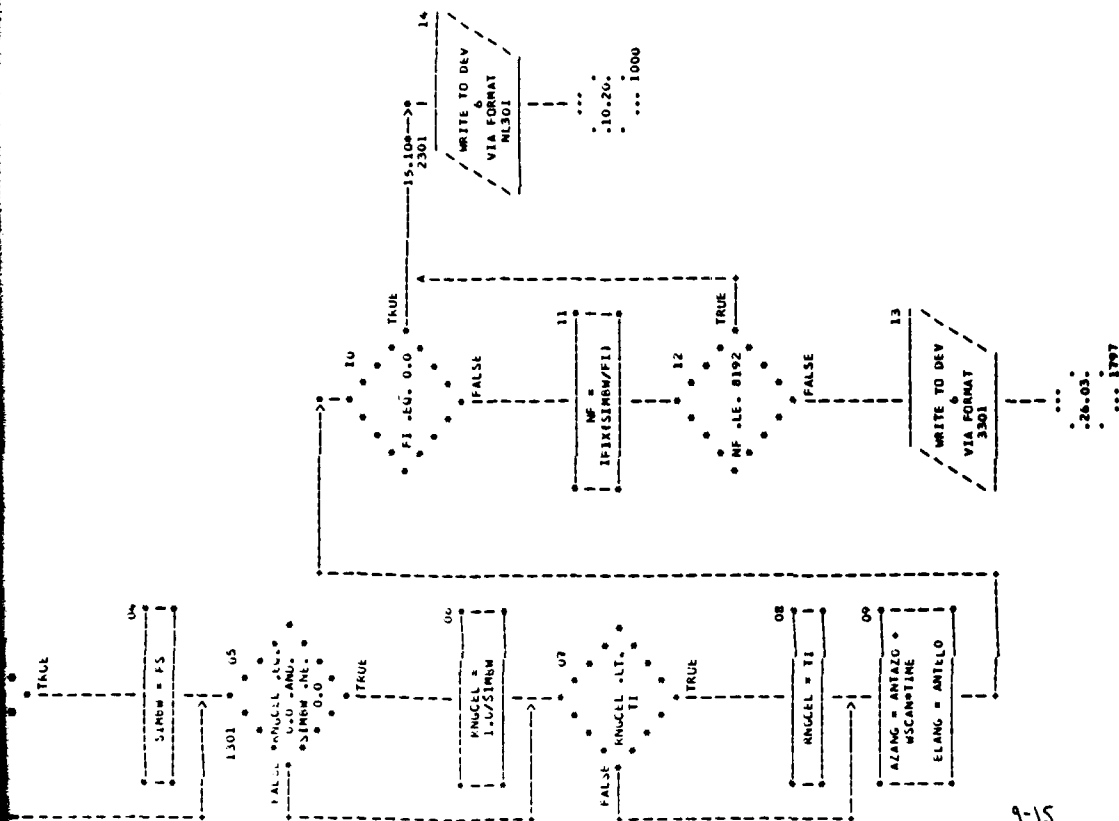
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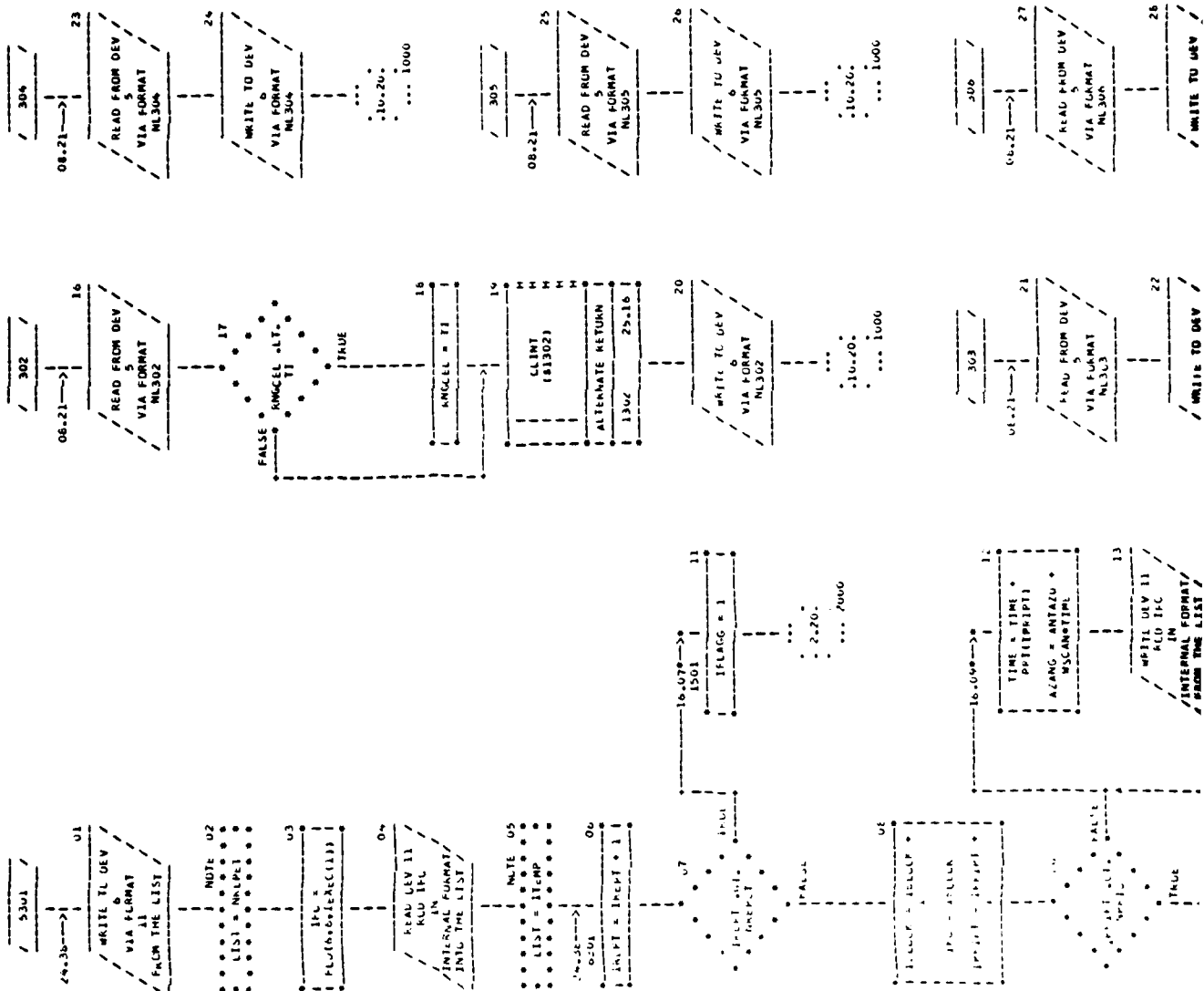


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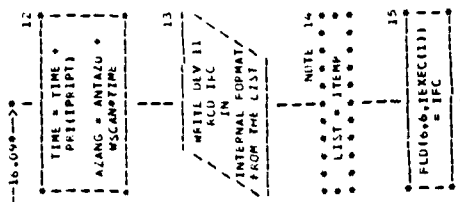
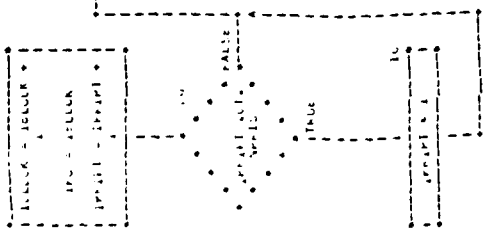


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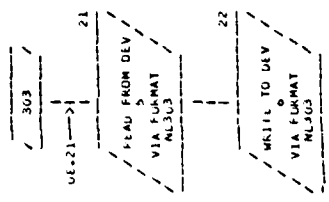
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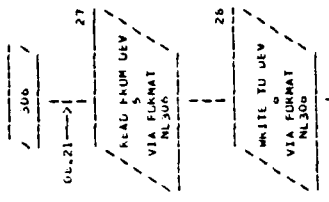
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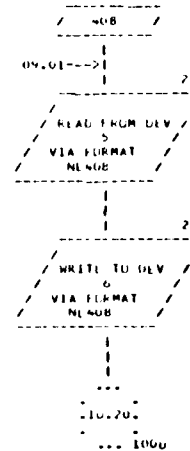
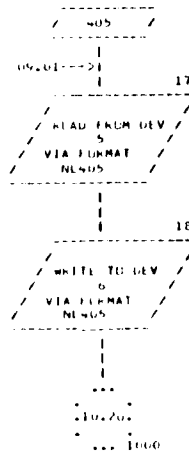
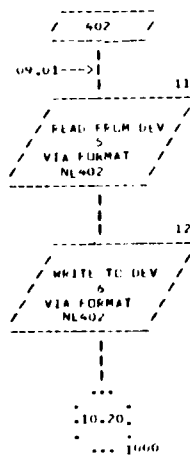
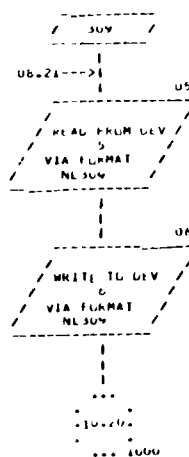
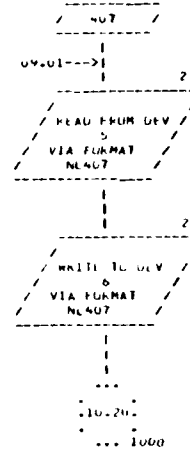
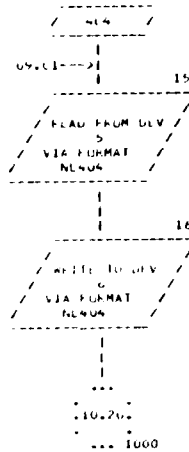
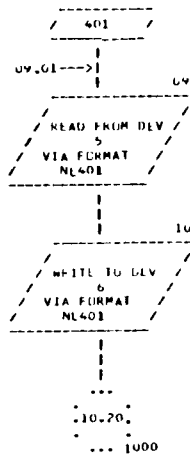
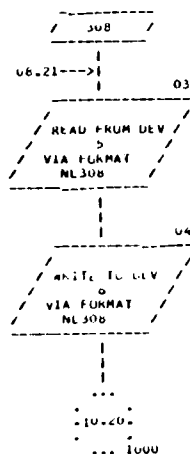
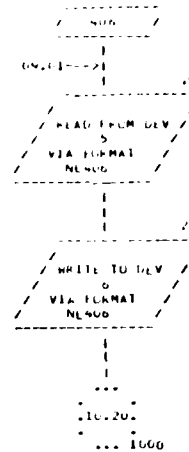
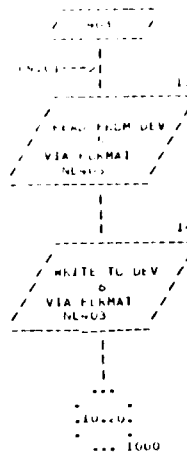
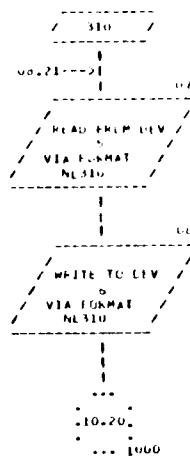
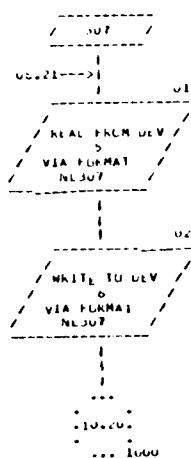
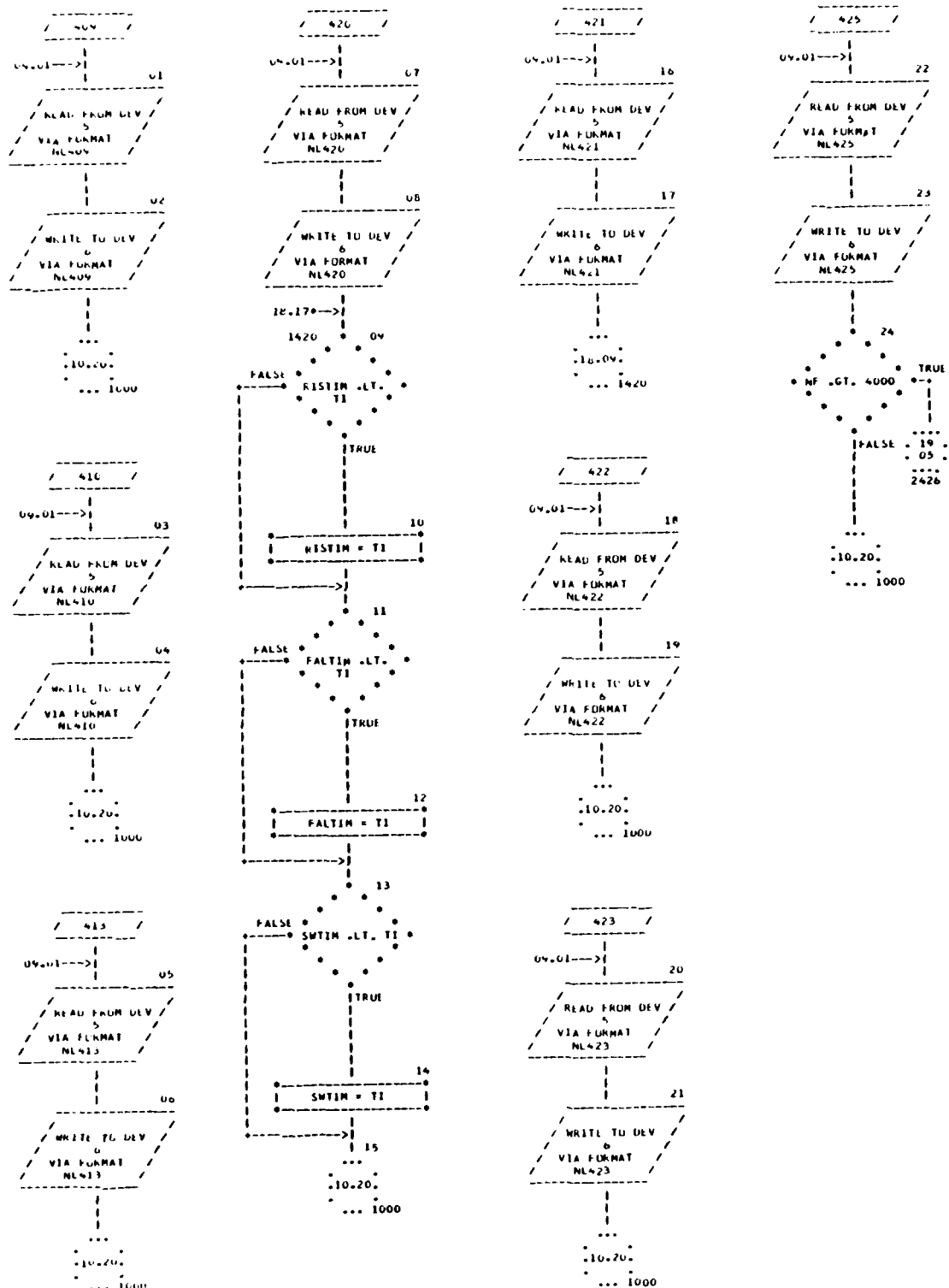
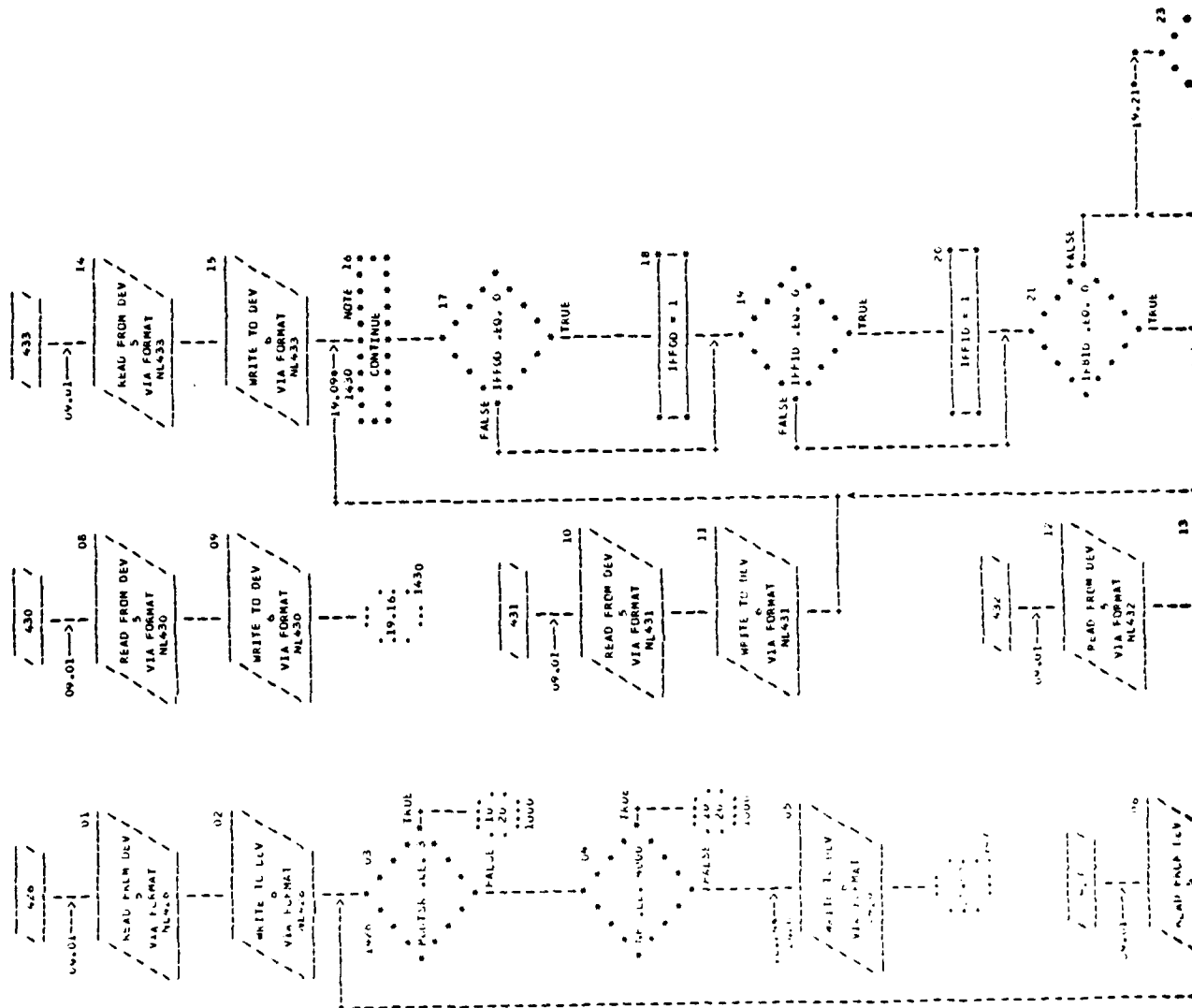


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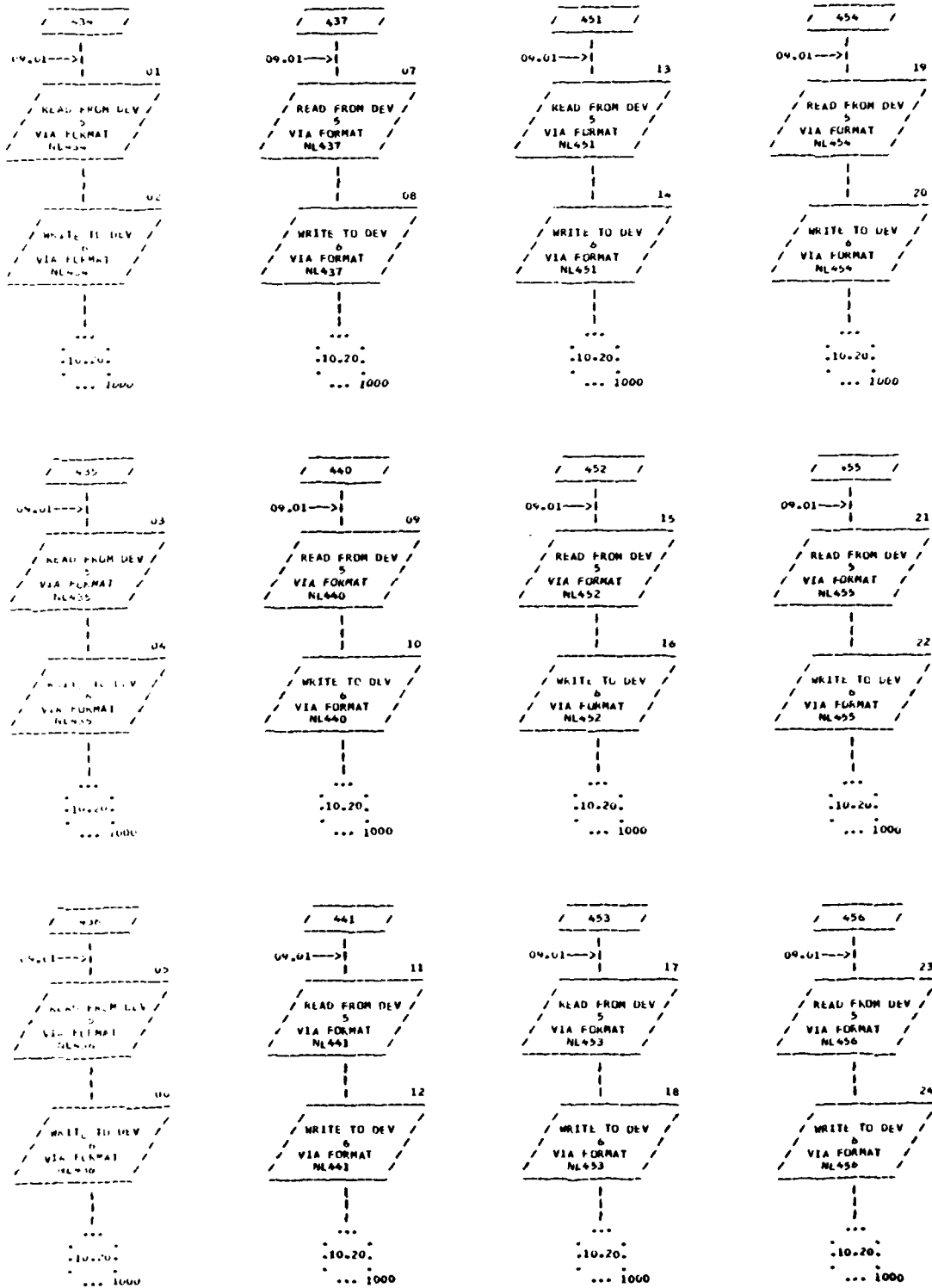




06/12/75

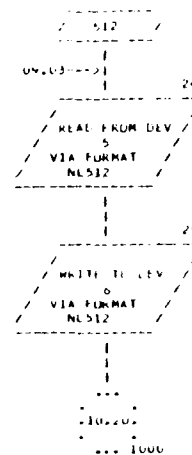
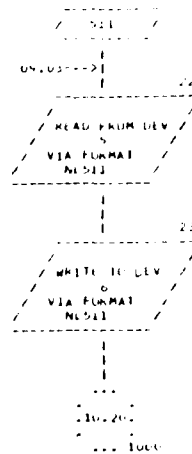
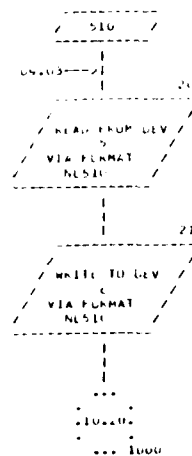
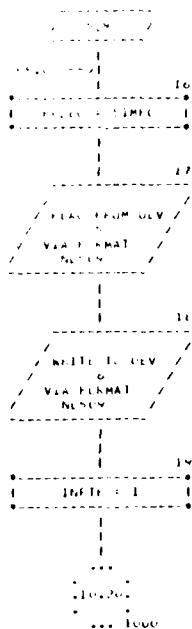
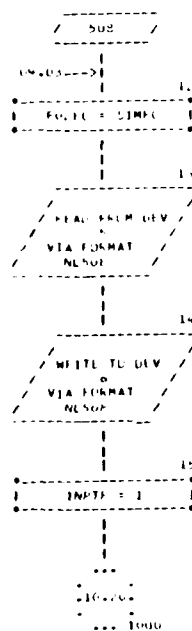
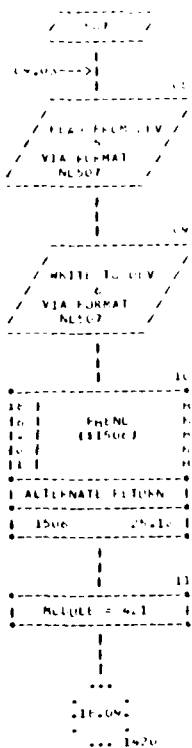
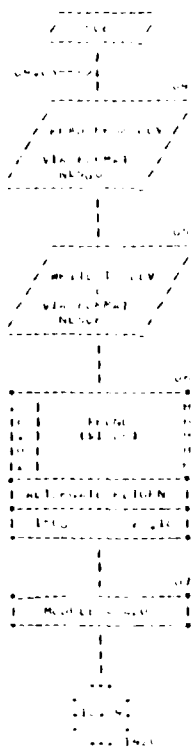
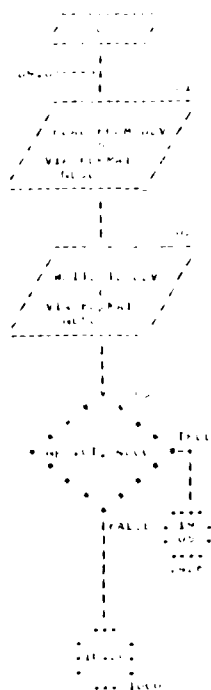
AUTOFLOW CHART SET - FWO/SCL RADSTM

CHART TITLE - PROCEDURES





UNCLASSIFIED



07/11/75

AUTOFLOW CHART SET - FMO/SEL RADSIM

UPANT 11111 - PRECLOSURES

103

06.17-->	NOTE 01 CONTINUE	06.01-->	NOTE 17 CONTINUE
06.17-->	NOTE 02 CONTINUE	06.01-->	NOTE 18 CONTINUE
06.17-->	NOTE 03 CONTINUE	06.01-->	NOTE 19 CONTINUE
06.17-->	NOTE 04 CONTINUE	06.01-->	NOTE 20 CONTINUE
06.17-->	NOTE 05 CONTINUE	06.01-->	NOTE 21 CONTINUE
06.17-->	NOTE 06 CONTINUE	06.01-->	NOTE 22 CONTINUE
06.17-->	NOTE 07 CONTINUE	06.01-->	NOTE 23 CONTINUE
06.17-->	NOTE 08 CONTINUE	06.01-->	NOTE 24 CONTINUE
06.17-->	NOTE 09 CONTINUE	06.01-->	NOTE 25 CONTINUE
06.17-->	NOTE 10 CONTINUE	06.01-->	NOTE 26 CONTINUE
06.17-->	NOTE 11 CONTINUE	06.01-->	NOTE 27 CONTINUE
06.17-->	NOTE 12 CONTINUE	06.01-->	NOTE 28 CONTINUE
06.17-->	NOTE 13 CONTINUE	06.01-->	NOTE 29 CONTINUE
06.17-->	NOTE 14 CONTINUE	06.01-->	NOTE 30 CONTINUE
06.17-->	NOTE 15 CONTINUE	06.01-->	NOTE 31 CONTINUE
06.17-->	NOTE 16 CONTINUE	06.01-->	NOTE 32 CONTINUE

06.01-->
NOTE 33
CONTINUE

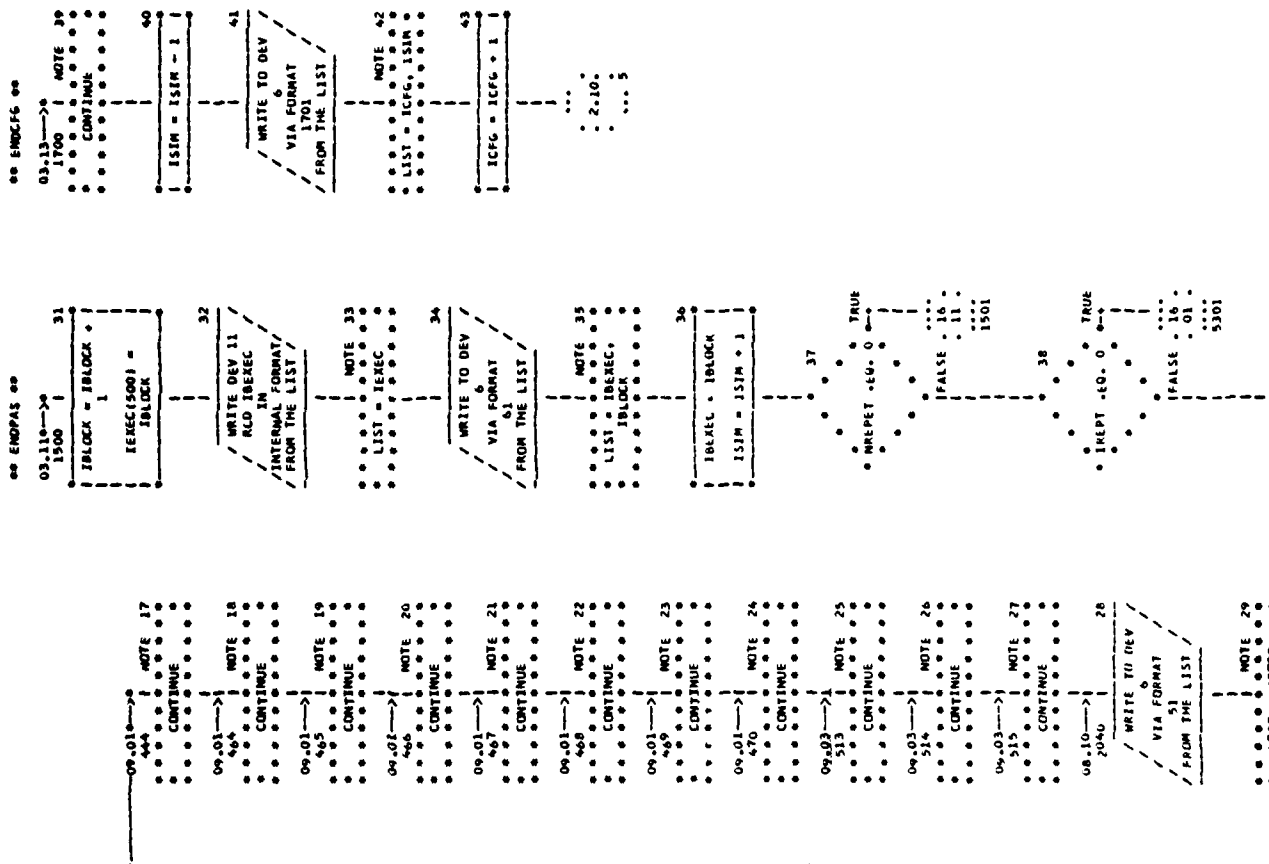
04.01-->	NOTE 24
434	CONTINUE
04.01-->	NOTE 25
442	CONTINUE
04.01-->	NOTE 26
443	CONTINUE
04.01-->	NOTE 27
444	CONTINUE
04.01-->	NOTE 28
446	CONTINUE
04.01-->	NOTE 29
447	CONTINUE
04.01-->	NOTE 30
448	CONTINUE
04.01-->	NOTE 31
449	CONTINUE
04.01-->	NOTE 32
450	CONTINUE

04.17-->	NOTE 08
111	CONTINUE
04.17-->	NOTE 09
112	CONTINUE
04.17-->	NOTE 10
113	CONTINUE
04.17-->	NOTE 11
114	CONTINUE
04.17-->	NOTE 12
115	CONTINUE
04.17-->	NOTE 13
116	CONTINUE
04.17-->	NOTE 14
117	CONTINUE
04.17-->	NOTE 15
118	CONTINUE
04.17-->	NOTE 16
119	CONTINUE

04.03-->	NOTE 33
503	CONTINUE
03.19-->	NOTE 34
2050	CONTINUE
WRITE TO DEV	
VIA FORMAT	
FROM THE LIST	
NOTE 35	LIST - JSTEP
MODULE	
...	
10.22	
1001	

9-24

06.17-->	109	NOTE 01
CONTINUE		
06.17-->	109	NOTE 02
CONTINUE		
06.17-->	112	NOTE 03
CONTINUE		
06.17-->	112	NOTE 04
CONTINUE		
06.17-->	120	NOTE 05
CONTINUE		
06.17-->	239	NOTE 06
CONTINUE		
06.17-->	240	NOTE 07
CONTINUE		
06.17-->	241	NOTE 08
CONTINUE		
06.17-->	242	NOTE 09
CONTINUE		
06.17-->	243	NOTE 10
CONTINUE		
06.17-->	311	NOTE 11
CONTINUE		
06.17-->	311	NOTE 12
CONTINUE		
06.17-->	311	NOTE 13
CONTINUE		
06.17-->	311	NOTE 14
CONTINUE		
06.17-->	311	NOTE 15
CONTINUE		



```

CONTINUE
...
NOTE 11
CONTINUE
...
NOTE 12
CONTINUE
...
NOTE 13
CONTINUE
...
NOTE 14
CONTINUE
...
NOTE 15
CONTINUE
...
NOTE 16
CONTINUE

```

```

04-03-->21  NOTE 25
513  CONTINUE
...
04-03-->26  NOTE 26
514  CONTINUE
...
04-03-->27  NOTE 27
515  CONTINUE
...
08-10-->28
2040  / WRITE TO DEV
      / VIA FORMAT
      / 51
      / FROM THE LIST
...
NOTE 29
LIST = JSTEP,
MODULE
...
30
JSTEP = JSTEP - 1
IBLOCK = IBLOCK - 1

```

```

...
2.20
... 2000

```

```

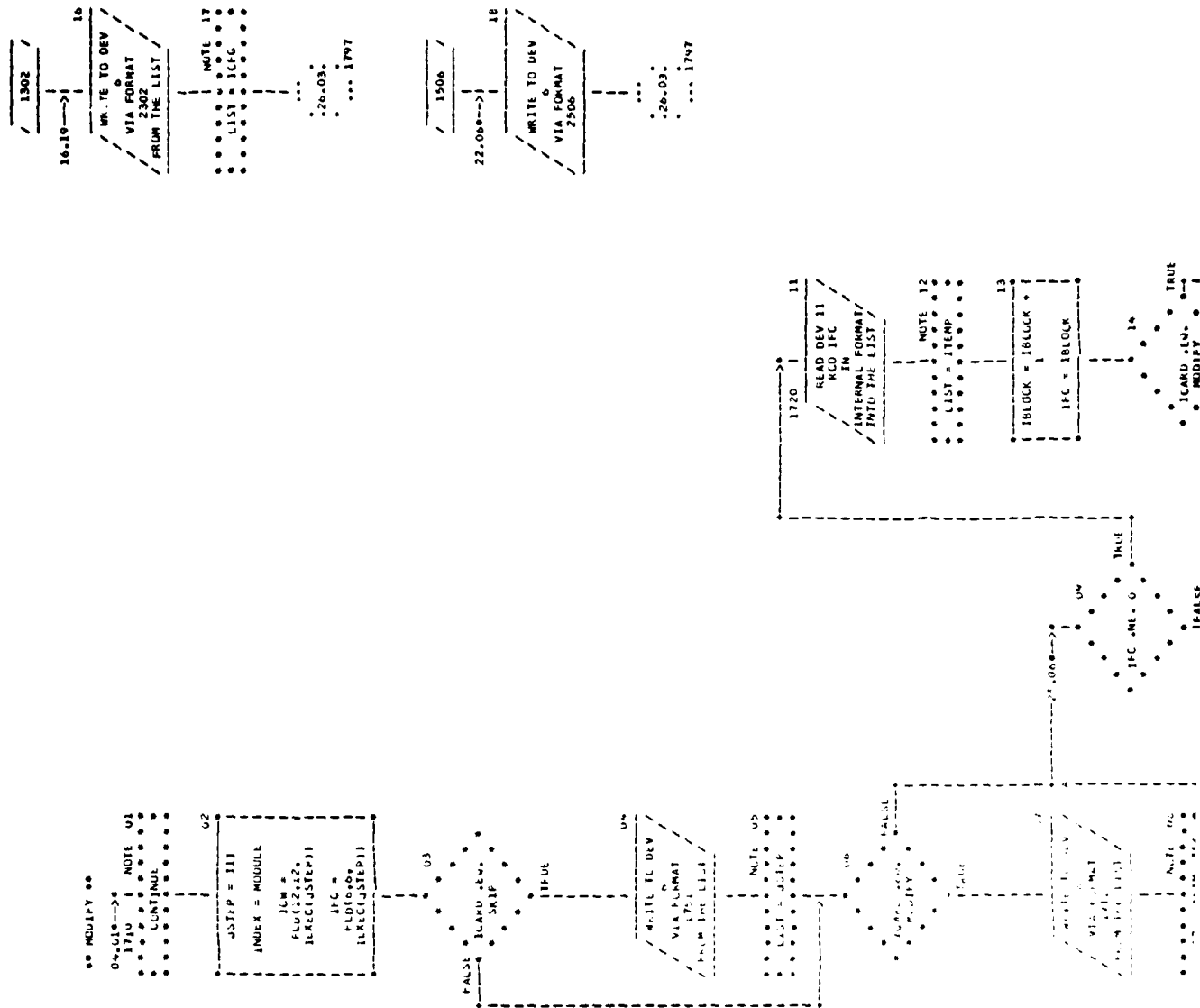
37
...
TRUE
...
IF (REPET - EQ - 0) ...
...
FALSE
...
1501
...
38
...
TRUE
...
IF (REPET - EQ - 0) ...
...
FALSE
...
1501
...
...
16.06
... 6301

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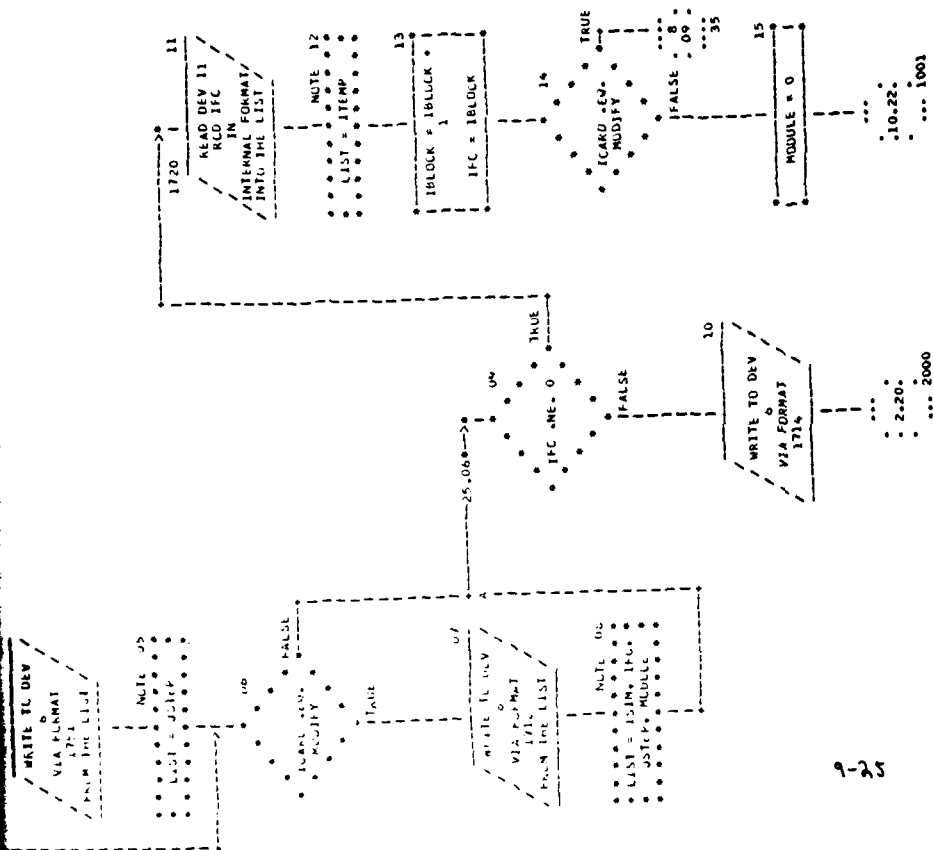
06/11/75

CHART TITLE - PROCEDURES

AUTOFLOW CHART SET - FWD/SEL RADSSIN



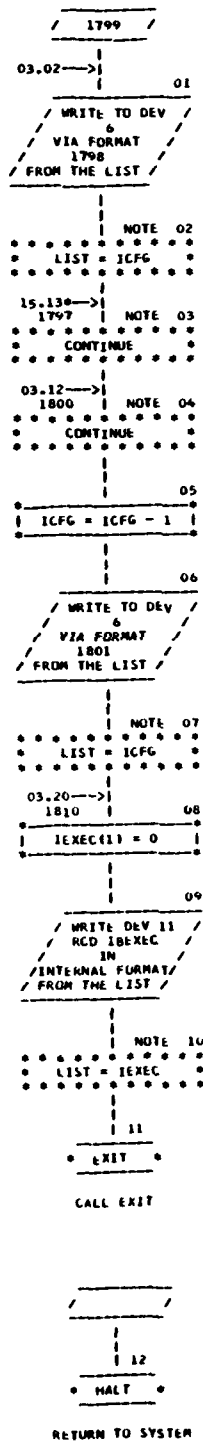
26-03
... 1797



GM/11/75

AUTOFLOW CHART SET - FMQ/SCL RADSIM

CHART TITLE - PROCEDURES



CIGAT Title - NON-PROCEDURAL STATEMENTS

```

COMMON/REK1/ ISTATES(10)
COMMON/REK2/ TEMPER(10),ITIME(10)
COMMON/REK3/ XTIME(10)
DIMENSION ANTAX(1,75), ANTAL(1,75)
DIMENSION WTX(1,100), NTS(1,100), FOL(1,100), FOLC(1,100),
NAND(1,25),TENE(1,10)
DIMENSION PDU(1,100), LUL(1,10), LULY(1,10)
DIMENSION TSCAT(1,100)
DIMENSION TSKUS(1,100)
DIMENSION DTINES(1,100)
DIMENSION ITAT(1,100)
DIMENSION PRI(11),PSAME(1,100),FLU(1,1,100),FLU(1,2,100)
INTEGER EXEC, ENDPAS, ENDOBJ, ENDOCU, STOREX, STORCY, STORLX,
STORLY, KEWIND, LUTIX, LUTY, LUTLX, LUTLY
INTEGER CLAPX,CLAPY,CLAPZ,CLAPXZ,CLAPYZ,CLAPZP
REAL LAMBDA,JSTART,JVEL,JPERIOD,JFM
REAL JRM,JPSIM,JMAZ,JNGT,JEPF,JFMW,JFM
DATA EXEC/EXEC /Z, LDEXEC/LELALC/Z, ENDPAS/ENDPAS/Z,
ENDOBJ/ENDOBJ/Z, ENDOCU/ENDOCU/Z, MODIFY/MODIFY/Z,
STOREX/STOREX/Z, STORCY/STORCY/Z, STORLX/STORLX/Z,
STORLY/STORLY/Z, LUL/LELALC/Z, LULY/LELALC/Z,
LUTIX/LELALC/Z, LUTY/LELALC/Z, KEWIND/KEWIND/Z,
LUTLX/LELALC/Z, LUTLY/LELALC/Z, LUTLX/LELALC/Z,
LUTLY/LELALC/Z, INPUTX/INPUTX/Z, INPUTY/INPUTY/Z,
INPUTZ/INPUTZ/Z, INPUTZ/INPUTZ/Z, JSTART/JSTART /Z
DATA NLDUX/NLDUX/Z, CLAPX/CLAPX/Z, CLAPY/CLAPY/Z,
CLAPZ/CLAPZ/Z, CLAPZP/CLAPZP/Z, CLAPZP /Z
EQUIVALENCE (ITIME, 1), NG, (LUTIME, 1), ES, 1,
(ITIME, 2), KFFG, (LUTIME, 2), DIMEN, 1,
(ITIME, 3), ISDUP, (LUTIME, 3), ITINV, 1,
(ITIME, 4), IDEF, (LUTIME, 4), DIMFO, 1,
(ITIME, 5), NORMET, (LUTIME, 5), NSCAN, 1,
(ITIME, 6), FI, (LUTIME, 6), FI, 1,
(ITIME, 7), LAMBDA, (LUTIME, 7), ENDOCU, 1,
(ITIME, 8), FSHIF, (LUTIME, 8), TIME, 1,
(ITIME, 9), ALAR, (LUTIME, 9), ANTAX, 1,
(ITIME, 10), FLANG, (LUTIME, 10), ANTAL, 1,
(ITIME, 11), ALIST, (LUTIME, 11), NTAX, 1,
(ITIME, 12), FLU(1,1), (LUTIME, 12), NUL, 1,
(ITIME, 13), LUTIME(1,1), LUTIME(2,1), NIM, 1,
(ITIME, 14), PRI(1), (LUTIME, 14), JFM(1),
(ITIME, 15), JFM(1), (LUTIME, 15), NUL(1),
EQUIVALENCE (ITIME, 16), JFM(1), (LUTIME, 16), JFM, 1,
(ITIME, 17), JFM(1), (LUTIME, 17), JFM, 1,
(ITIME, 18), JFM(1), (LUTIME, 18), JFM, 1,
(ITIME, 19), JFM(1), (LUTIME, 19), JFM, 1,
(ITIME, 20), JFM(1), (LUTIME, 20), JFM, 1,
(ITIME, 21), JFM(1), (LUTIME, 21), JFM, 1,
(ITIME, 22), JFM(1), (LUTIME, 22), JFM, 1,
(ITIME, 23), JFM(1), (LUTIME, 23), JFM, 1,
(ITIME, 24), JFM(1), (LUTIME, 24), JFM, 1,
(ITIME, 25), JFM(1), (LUTIME, 25), JFM, 1,

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[illegible]

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      (ITEMP(18), RHOCLD ) , (ITEMP(19), TCONUM )
      *
      (ITEMP(115), TEMSCC), (ITEMP(116), MGTASK)
      *
      (ITEMP(117), FCODEC), (ITEMP(118), SECTRT)
      (ITEMP(119), TOTLAK)
      *
      (ITEMP(160), TSKELETT) = 0
EQUIVALENCE (ITEMP(169), TEMPLG)
EQUIVALENCE (ITEMP(50), FW ) , (ITEMP(51), FSTR )
      (ITEMP(52), LDRK ) , (ITEMP(53), FRDM )
      (ITEMP(54), NMTX ) , (ITEMP(55), SPW )
      (ITEMP(56), NSOH ) , (ITEMP(57), SWTH )
      (ITEMP(58), KISTIM ) , (ITEMP(59), EALTIM )
      (ITEMP(100), TSLAFT ) , (ITEMP(201), FCODELL)
      (ITEMP(101), WTX(1,1)) , (ITEMP(116), BPKI )
      (ITEMP(124), VFLAK ) = 0
      (ITEMP(188), TCDE ) = 0 , (ITEMP(183), MODEPH)
      (ITEMP(164), NGF ) , (ITEMP(166), IFY(1))
EQUIVALENCE (ITEMP(101), NTAFS ) , (ITEMP(102), FODEC )
      (ITEMP(188), JASFC) , (ITEMP(155), INPTF)
      (ITEMP(201), HAF(1,1)) , (ITEMP(201), DECI(1,1))
EQUIVALENCE (ITEMP(103), XLSB ) , (ITEMP(104), NBITS )
      (ITEMP(105), IRCT ) , (ITEMP(164), ADCFS )
EQUIVALENCE (ITEMP(106), KTGT ) , (ITEMP(107), KTG )
      (ITEMP(101), ANGGL ) , (ITEMP(109), TORINI )
      (ITEMP(110), ASIM ) , (ITEMP(111), NSCAT )
      (ITEMP(112), TGVEL ) , (ITEMP(201), TSCAT(1,1))
EQUIVALENCE (ITEMP(170), NUCL ) , (ITEMP(196), TAGV )
EQUIVALENCE (ITEMP(191), GAIN )
EQUIVALENCE (ITEMP(180), SHLO ) , (ITEMP(161), SHPMAS )
      *
      (ITEMP(157), IJIT ) = 0
EQUIVALENCE (ITEMP(160), URGD ) , (ITEMP(187), AMENG )
      (ITEMP(181), STENS ) = 0
EQUIVALENCE (ITEMP(195), FARIGS) , (ITEMP(190), NGAM )
      (ITEMP(197), NHZ) , (ITEMP(201), TSAME(1,1))
EQUIVALENCE (ITEMP(194), NSFC ) , (ITEMP(101), FCODEC(1,1)),
      (ITEMP(201), FECC(1,1))
EQUIVALENCE (ITEMP(171), JNM )
      (ITEMP(171), JMSIM ) , (ITEMP(173), JMAZ )
      (ITEMP(174), JRCT ) , (ITEMP(175), JKRP )
      (ITEMP(176), JMHW ) , (ITEMP(177), JMW )
      (ITEMP(177), JFO ) , (ITEMP(179), JSIAKT)
      (ITEMP(184), JVLC ) , (ITEMP(157), JPKNBT)
NAMELIST/NL01/JA(1),JA(2),JNR(U),ANGL(1),SIGMA,XM) AN,NR,ND,
      IDUMP
NAMELIST/NL02/UMLAN,UT,TS,JMA,XMEAN,TROUMP
NAMELIST/NL03/ NAVG
NAMELIST/NL04/ NAVG
NAMELIST/NL06/ NAVG
NAMELIST/NL08/ NAVG
NAMELIST/NL11/SZ ADLT,ASTET,ASTID

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— 100 —

77

SUBJECT: Warrant of Arrest DATE: 10/2/01 PAGE: 1 OF 1

1

9.32

02/11/75

CHART TITLE - NON-PROCEDURAL STATEMENTS

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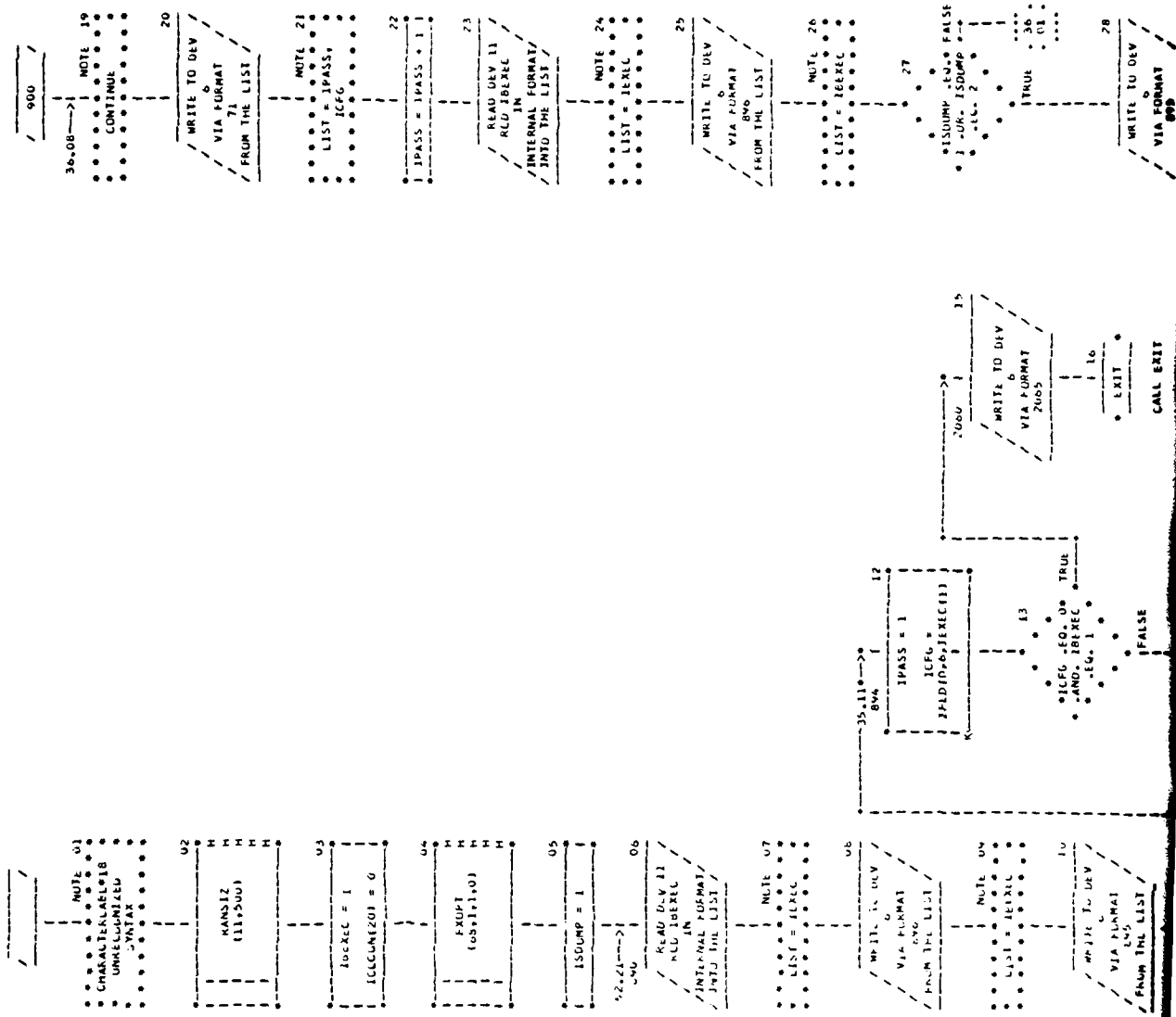
1751 FORMAT(' STEP NUMBER',I3,' WILL BE BYPASSED FOR REMAINDER',
      * OF THIS CONFIGURATION')
1712 FORMAT(1H,'MOD FOR PASS NUMBER',I3,' DATA BLOCK',I3,' FOR J
      OF STEP',I4,' CALLING MODULE',I4,' IS TO BE MODIFIED' )
1714 FORMAT(' I BLOCK = 0 MODIFICATION NOT PERFORMED.' )
2302 FORMAT(' NON-STANDARD RETURN FROM CLINT.....THE CONFIGURATIONS PRE
      CEEDING',I5,' WILL BE EXECUTED')
2506 FORMAT(' NON-STANDARD RETURN FROM PHENC.....PRECEDING
      CONFIGURATIONS WILL BE EXECUTED')
1798 FORMAT(' THE NUMBER OF DATA BLOCKS TO BE LOADED EXCEEDS STORAGE A
      VAILABLE.....THE CONFIGURATIONS PRECEDING',I5,' WILL BE EXECUTED'
      )
1801 FORMAT(1H0,'THE DATA LOAD FOR',I3,' CONFIGURATIONS HAS BEEN COMPLE
      TED.....SIMULATION ACTIVITY FOLLOWS')

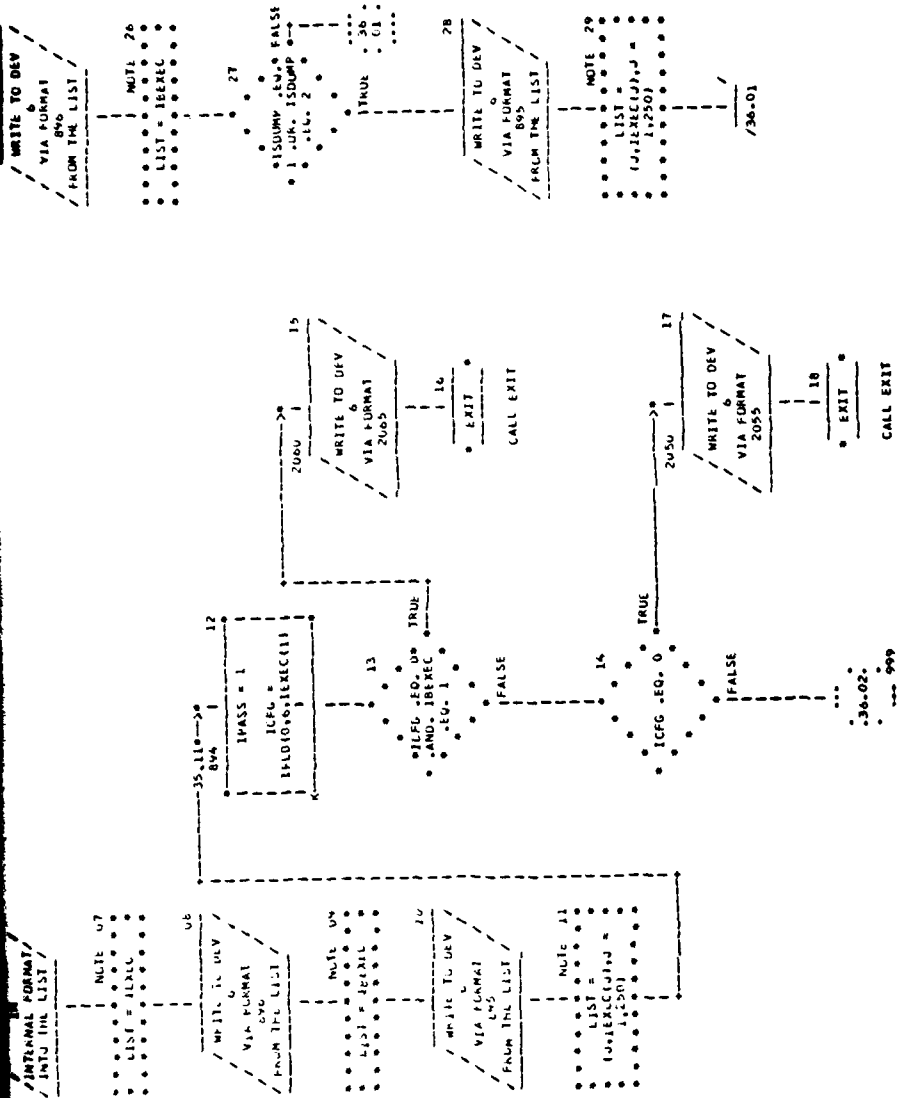
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• MAIN 2 •

CHART TITLE - PROCEDURES

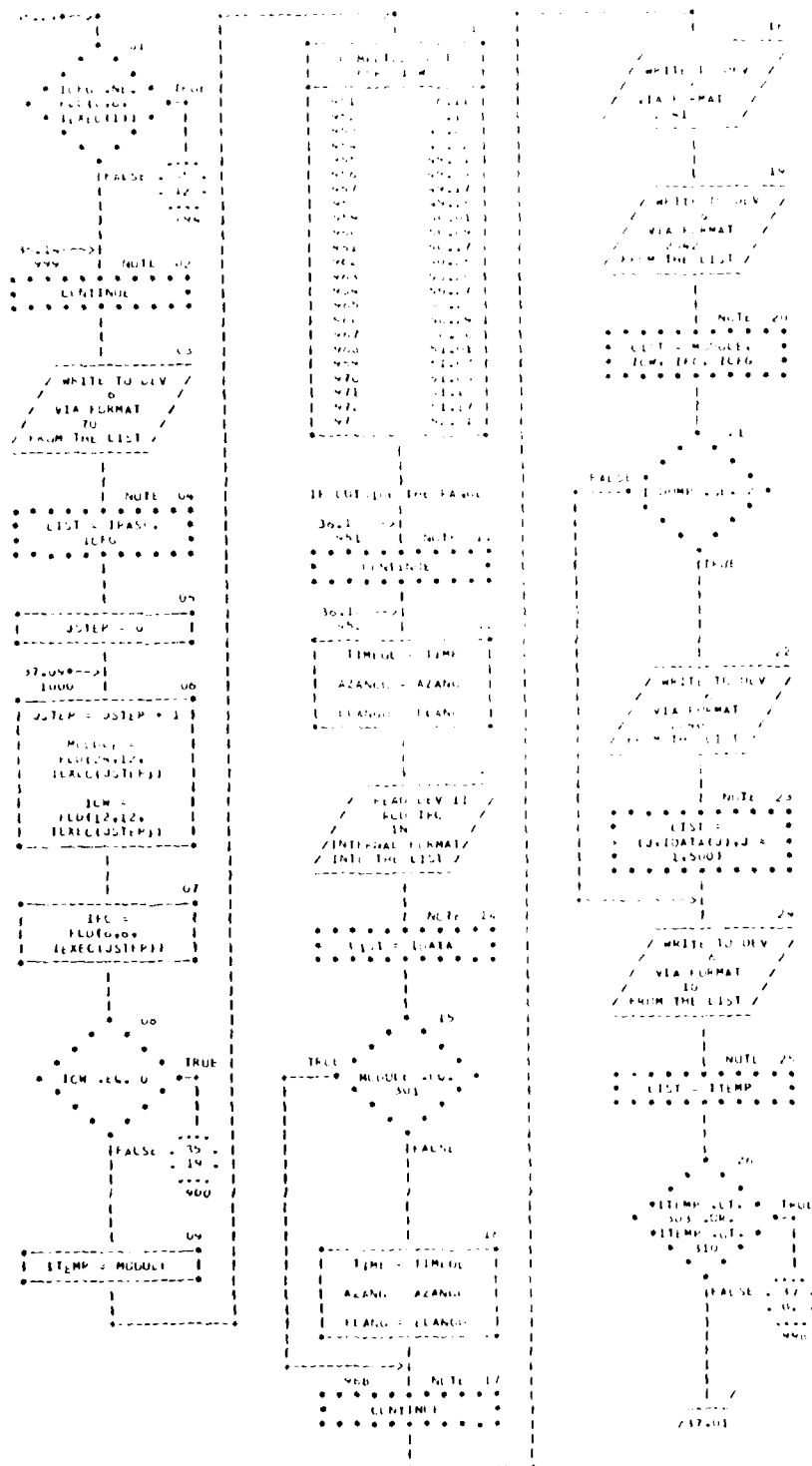
AUTOFLOW CHART SET - NO/SCL RADSIM





002112/05

ORANGE TABLE - 00000000



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AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - PROCEDURES

The diagram illustrates the internal architecture of the K10PM2 and K10PM3 processors, showing the flow of data and control signals between various components.

K10PM2 Processor Structure:

- Registers:** 17 registers (R1-R16, R17) are shown, each with a 32-bit data path. The registers are organized into two groups: R1-R16 (16 registers) and R17 (1 register).
- ALU:** A 32-bit ALU is shown, capable of performing operations on data from the registers. It is labeled "ALU" and "32.12".
- Control Logic:** The control logic is represented by a block labeled "K10PM2" and "32.12". It receives control signals from the registers and the ALU.
- Input/Output:** The processor has a 32-bit input/output bus, labeled "32.12".

K10PM3 Processor Structure:

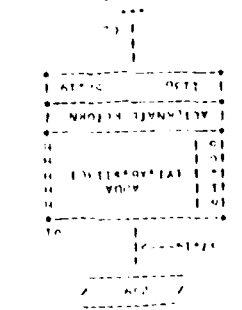
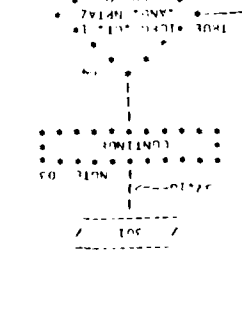
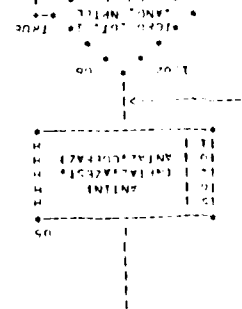
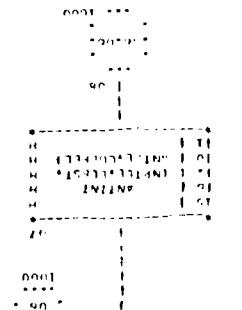
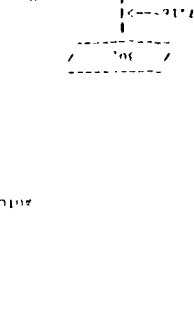
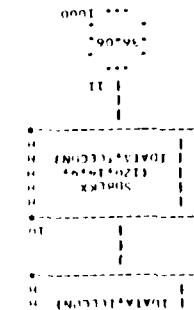
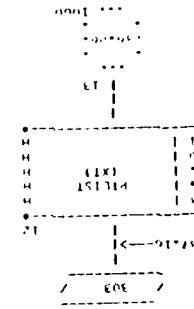
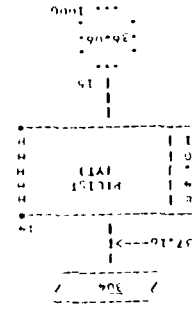
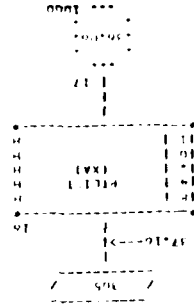
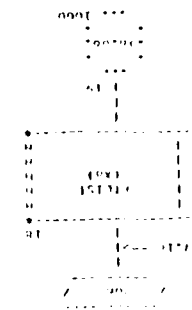
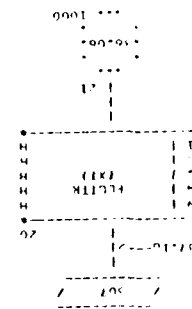
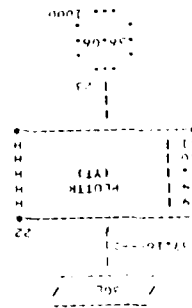
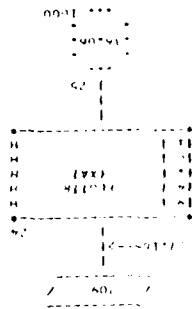
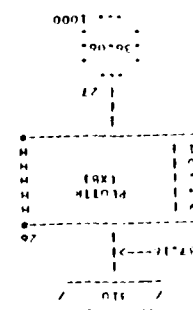
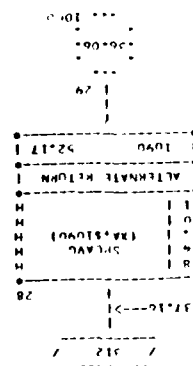
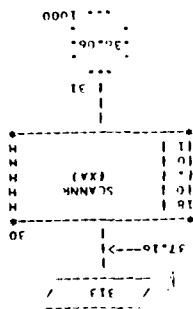
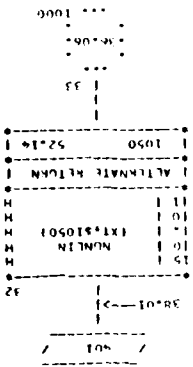
- Registers:** 17 registers (R1-R16, R17) are shown, each with a 32-bit data path. The registers are organized into two groups: R1-R16 (16 registers) and R17 (1 register).
- ALU:** A 32-bit ALU is shown, capable of performing operations on data from the registers. It is labeled "ALU" and "32.12".
- Control Logic:** The control logic is represented by a block labeled "K10PM3" and "32.12". It receives control signals from the registers and the ALU.
- Input/Output:** The processor has a 32-bit input/output bus, labeled "32.12".

Internal Components:

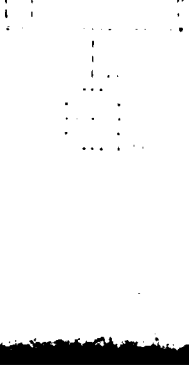
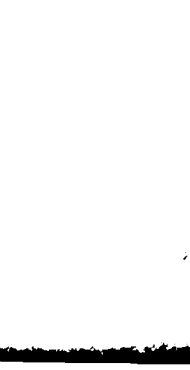
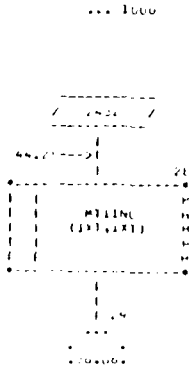
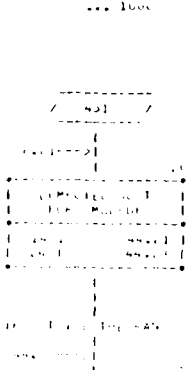
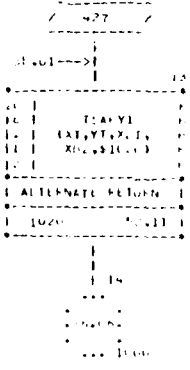
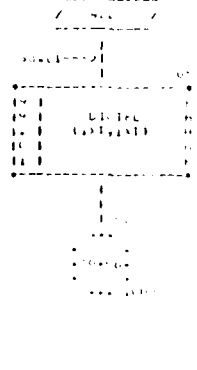
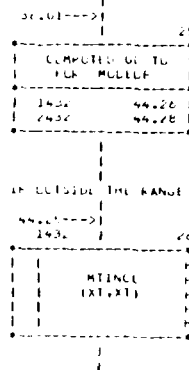
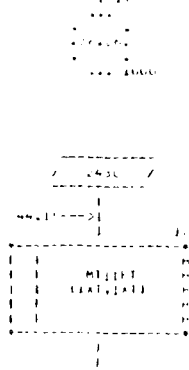
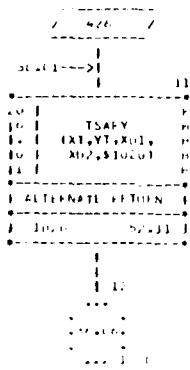
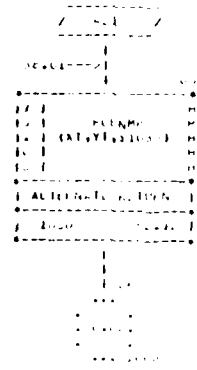
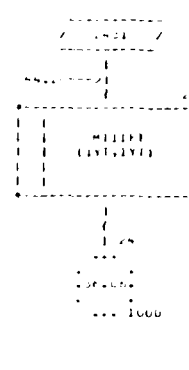
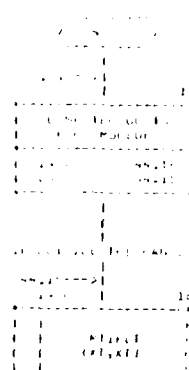
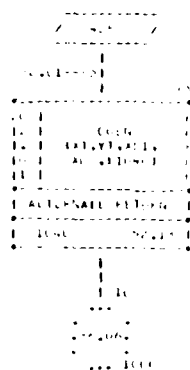
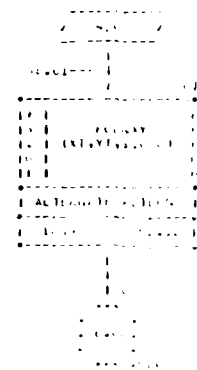
- Registers:** 17 registers (R1-R16, R17) are shown, each with a 32-bit data path. The registers are organized into two groups: R1-R16 (16 registers) and R17 (1 register).
- ALU:** A 32-bit ALU is shown, capable of performing operations on data from the registers. It is labeled "ALU" and "32.12".
- Control Logic:** The control logic is represented by a block labeled "K10PM2" and "32.12". It receives control signals from the registers and the ALU.
- Input/Output:** The processor has a 32-bit input/output bus, labeled "32.12".

[illegible]

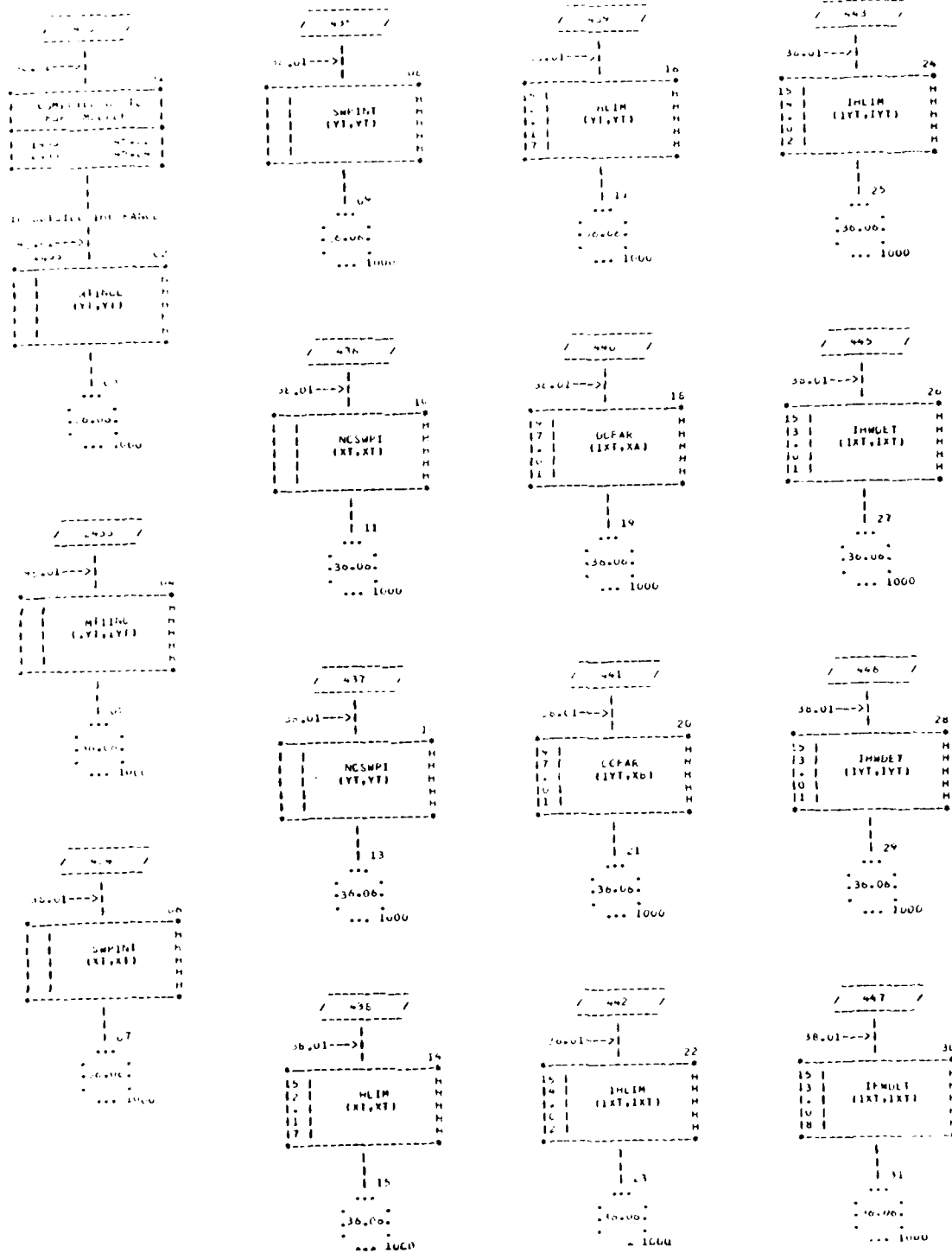
Dr. L. J. D. C. T. M. R. A. M. C.



COMPTON SYSTEMS



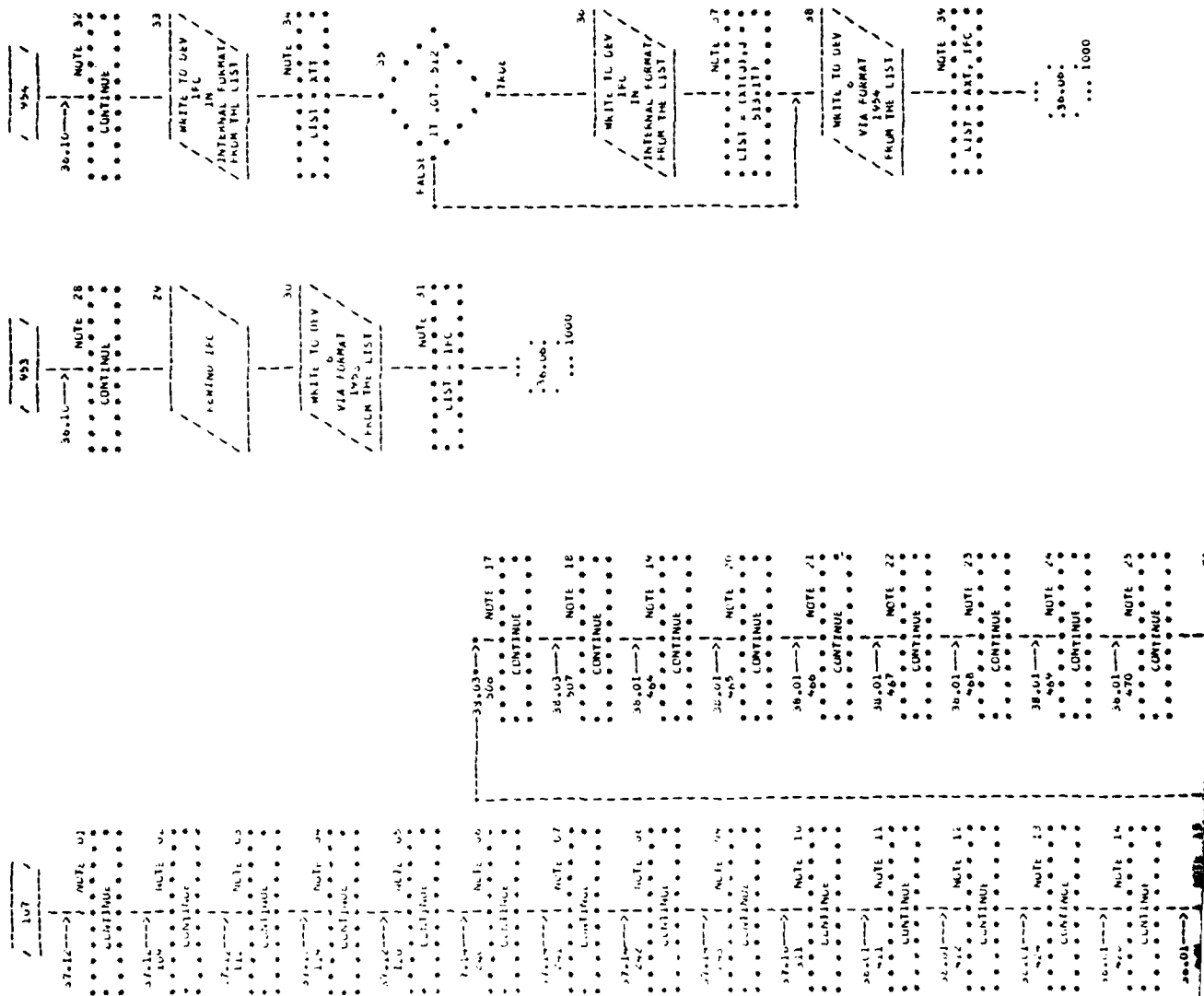
CONNECTIONS TO THE NEW ZONE FACILITY

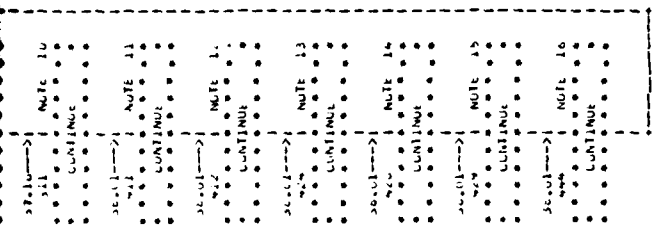
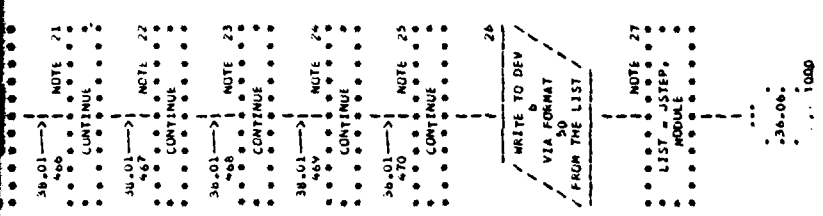
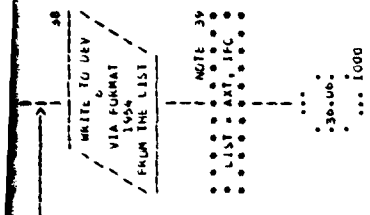


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CHART TITLE - PROCEDURES

AUTOFLOW CHART SET - FMO/SCS RADSH



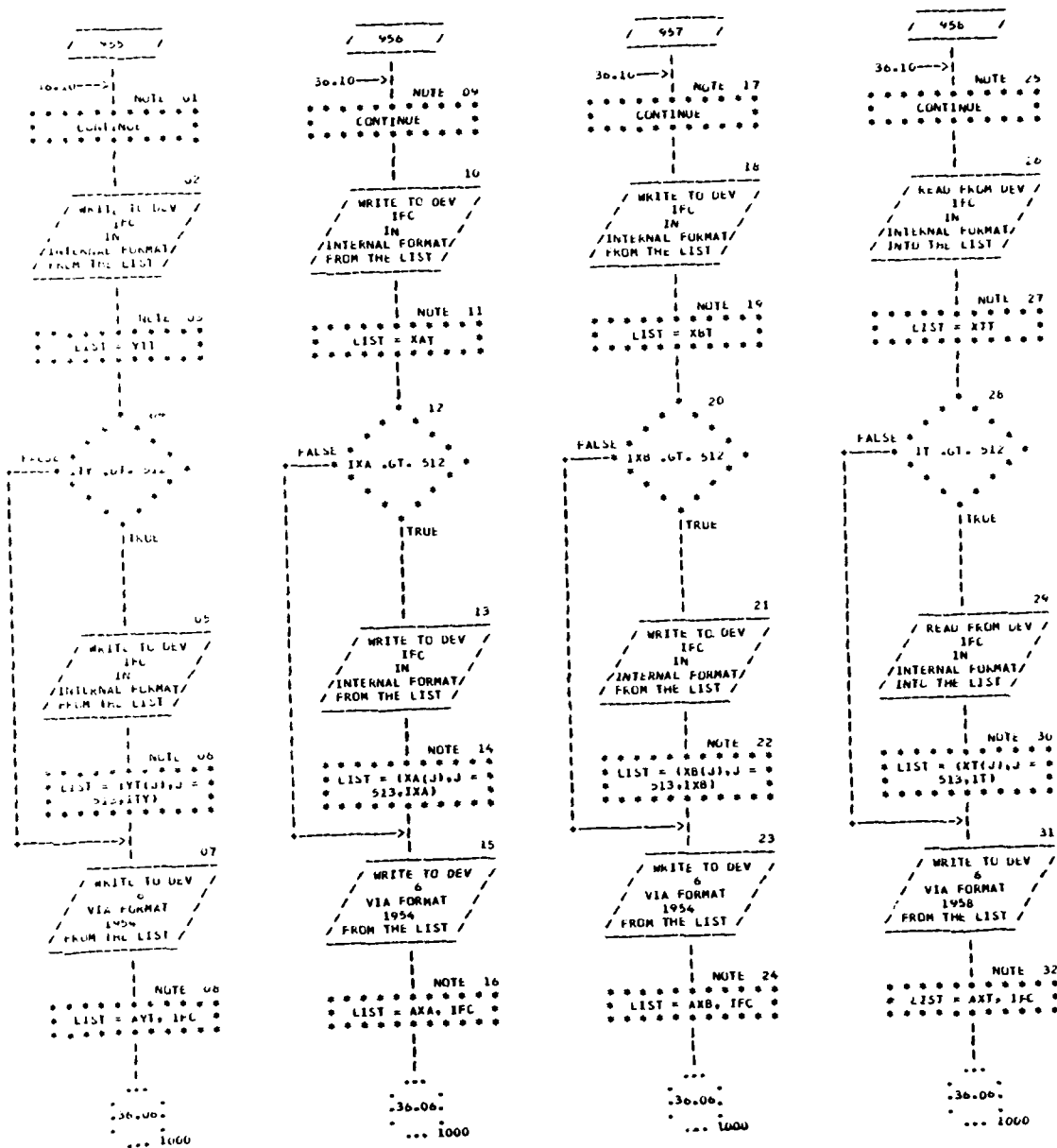


9-47

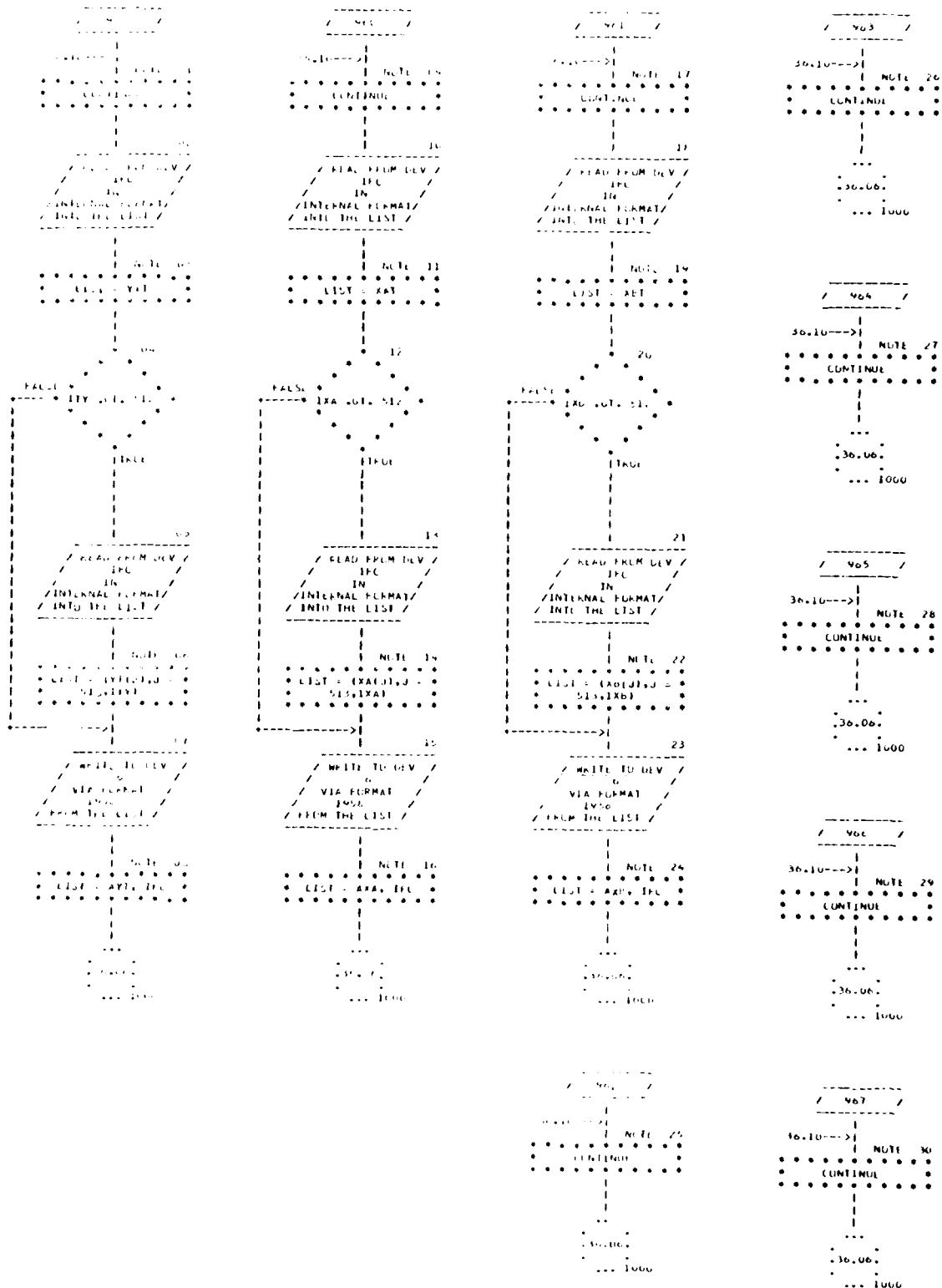
06/11/75

AUTOFLOW CHART SET - FWD/SCL RAUSIM

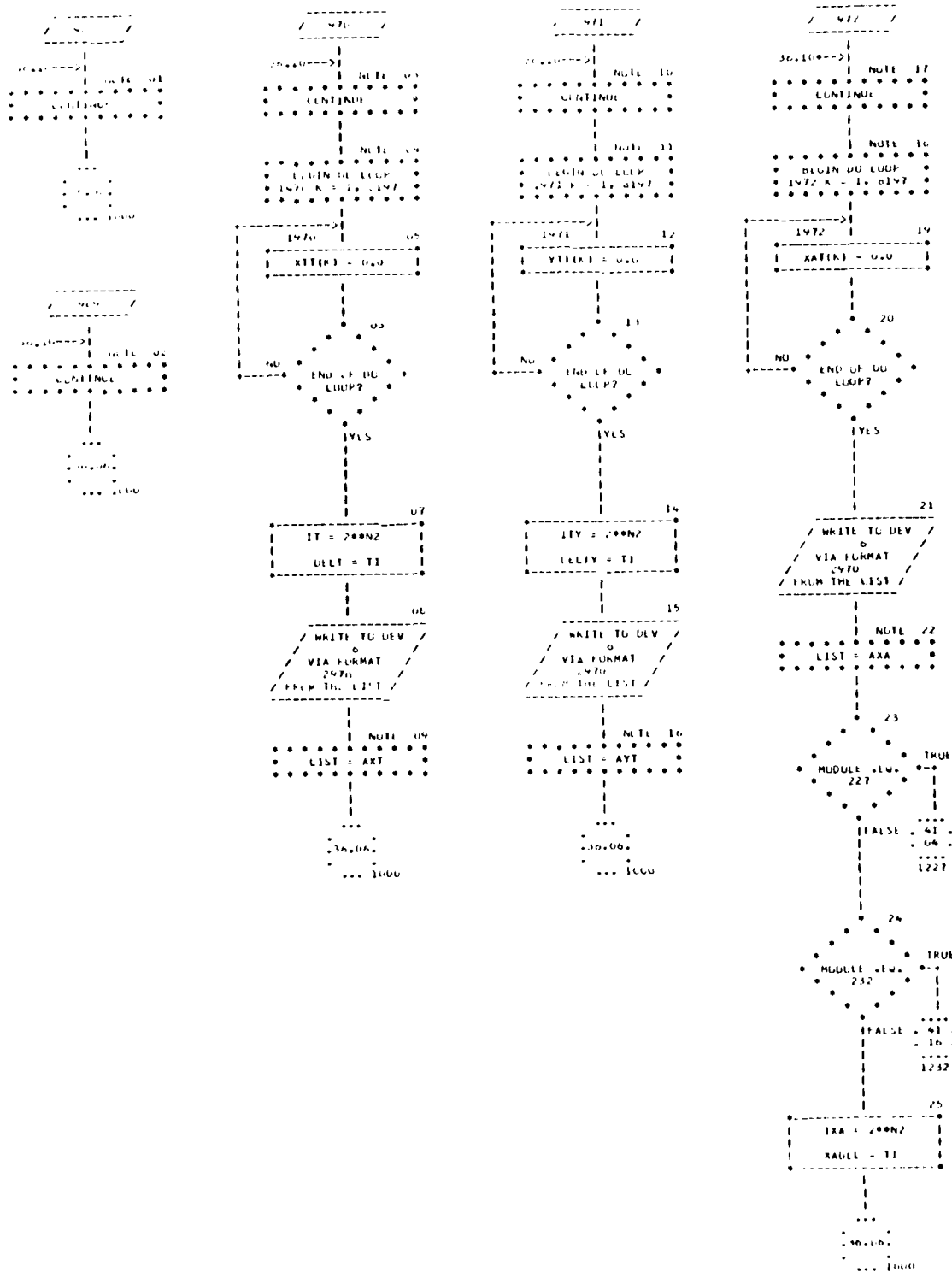
UPART TITLE - PROCEDURES



EXERCISE - PART I



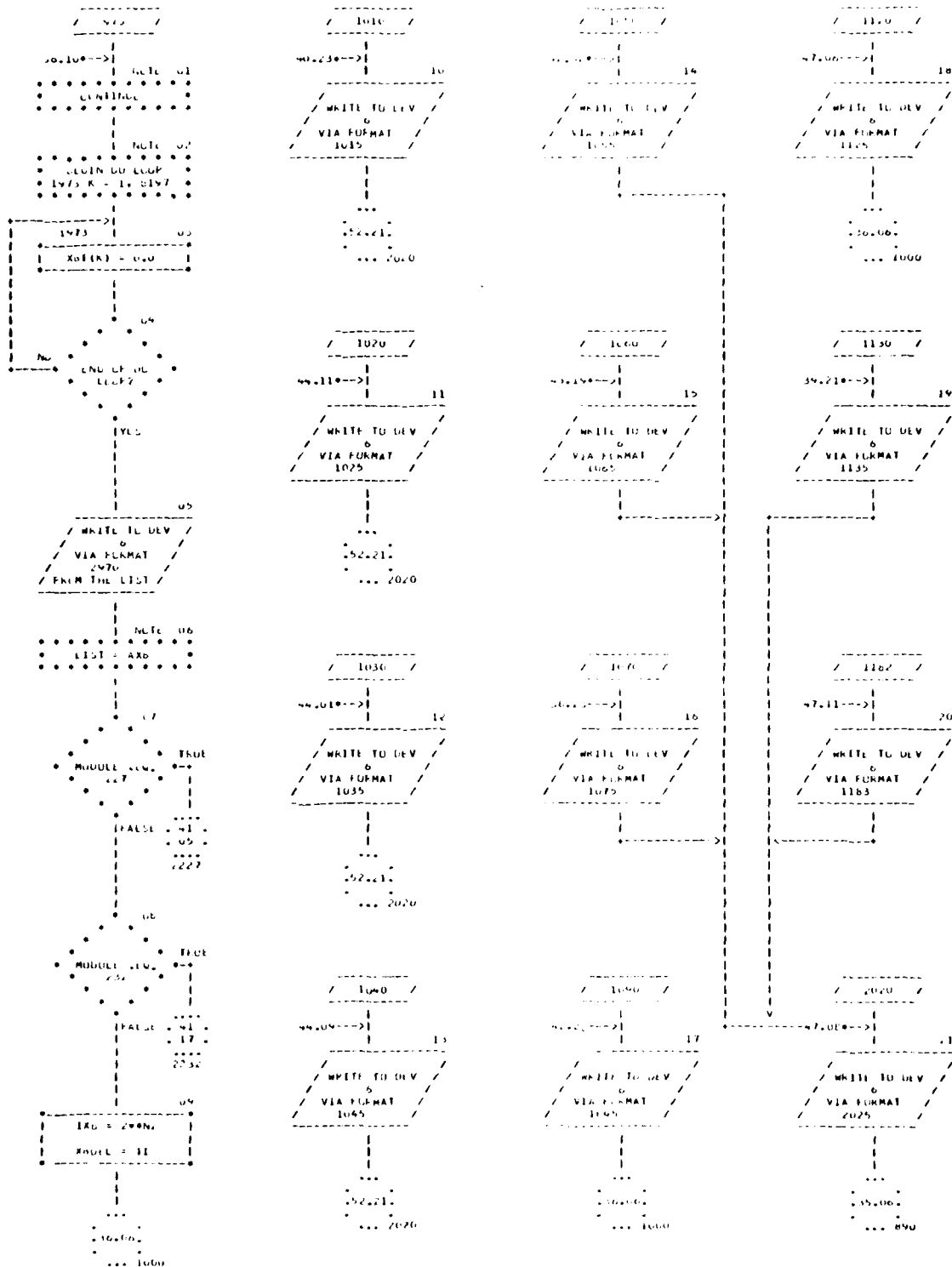
CONST EQU = 1000000000



06/11/75

RECEIVED COPY 11-11-75 11:00 AM

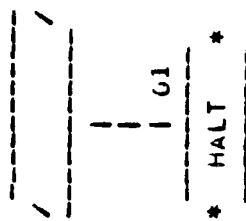
CHART 1111 - EXECUTION



06/11/75

CHART TITLE - PROCEDURES

AUTOFLW CHART SET - FWD/SCL RADSIM



RETURN TO SYSTEM

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

```

COMMON /T1/ T1(1000000),T2(1000000),T3(1000000),T4(1000000),T5(1000000),
+T6(1000000),T7(1000000),T8(1000000),T9(1000000),T10(1000000)
COMMON /T2/ T2(1000000),T3(1000000),T4(1000000),T5(1000000),T6(1000000),
+T7(1000000),T8(1000000),T9(1000000),T10(1000000)
COMMON /T3/ T3(1000000),T4(1000000),T5(1000000),T6(1000000),T7(1000000),
+T8(1000000),T9(1000000),T10(1000000)
COMMON /T4/ T4(1000000),T5(1000000),T6(1000000),T7(1000000),T8(1000000),
+T9(1000000),T10(1000000)
COMMON /T5/ T5(1000000),T6(1000000),T7(1000000),T8(1000000),T9(1000000),
+T10(1000000)
COMMON /T6/ T6(1000000),T7(1000000),T8(1000000),T9(1000000),T10(1000000)
COMMON /T7/ T7(1000000),T8(1000000),T9(1000000),T10(1000000)
COMMON /T8/ T8(1000000),T9(1000000),T10(1000000)
COMMON /T9/ T9(1000000),T10(1000000)
COMMON /T10/ T10(1000000)
COMMON /T11/ T11(1000000),T12(1000000),T13(1000000),T14(1000000),T15(1000000),
+T16(1000000),T17(1000000),T18(1000000),T19(1000000),T20(1000000)
COMMON /T12/ T12(1000000),T13(1000000),T14(1000000),T15(1000000),T16(1000000),
+T17(1000000),T18(1000000),T19(1000000),T20(1000000)
COMMON /T13/ T13(1000000),T14(1000000),T15(1000000),T16(1000000),T17(1000000),
+T18(1000000),T19(1000000),T20(1000000)
COMMON /T14/ T14(1000000),T15(1000000),T16(1000000),T17(1000000),T18(1000000),
+T19(1000000),T20(1000000)
COMMON /T15/ T15(1000000),T16(1000000),T17(1000000),T18(1000000),T19(1000000),
+T20(1000000)
COMMON /T16/ T16(1000000),T17(1000000),T18(1000000),T19(1000000),T20(1000000)
COMMON /T17/ T17(1000000),T18(1000000),T19(1000000),T20(1000000)
COMMON /T18/ T18(1000000),T19(1000000),T20(1000000)
COMMON /T19/ T19(1000000),T20(1000000)
COMMON /T20/ T20(1000000)
COMMON /T21/ T21(1000000),T22(1000000),T23(1000000),T24(1000000),T25(1000000),
+T26(1000000),T27(1000000),T28(1000000),T29(1000000),T30(1000000)
COMMON /T22/ T22(1000000),T23(1000000),T24(1000000),T25(1000000),T26(1000000),
+T27(1000000),T28(1000000),T29(1000000),T30(1000000)
COMMON /T23/ T23(1000000),T24(1000000),T25(1000000),T26(1000000),T27(1000000),
+T28(1000000),T29(1000000),T30(1000000)
COMMON /T24/ T24(1000000),T25(1000000),T26(1000000),T27(1000000),T28(1000000),
+T29(1000000),T30(1000000)
COMMON /T25/ T25(1000000),T26(1000000),T27(1000000),T28(1000000),T29(1000000),
+T30(1000000)
COMMON /T26/ T26(1000000),T27(1000000),T28(1000000),T29(1000000),T30(1000000)
COMMON /T27/ T27(1000000),T28(1000000),T29(1000000),T30(1000000)
COMMON /T28/ T28(1000000),T29(1000000),T30(1000000)
COMMON /T29/ T29(1000000),T30(1000000)
COMMON /T30/ T30(1000000)
COMMON /T31/ T31(1000000),T32(1000000),T33(1000000),T34(1000000),T35(1000000),
+T36(1000000),T37(1000000),T38(1000000),T39(1000000),T40(1000000)
COMMON /T32/ T32(1000000),T33(1000000),T34(1000000),T35(1000000),T36(1000000),
+T37(1000000),T38(1000000),T39(1000000),T40(1000000)
COMMON /T33/ T33(1000000),T34(1000000),T35(1000000),T36(1000000),T37(1000000),
+T38(1000000),T39(1000000),T40(1000000)
COMMON /T34/ T34(1000000),T35(1000000),T36(1000000),T37(1000000),T38(1000000),
+T39(1000000),T40(1000000)
COMMON /T35/ T35(1000000),T36(1000000),T37(1000000),T38(1000000),T39(1000000),
+T40(1000000)
COMMON /T36/ T36(1000000),T37(1000000),T38(1000000),T39(1000000),T40(1000000)
COMMON /T37/ T37(1000000),T38(1000000),T39(1000000),T40(1000000)
COMMON /T38/ T38(1000000),T39(1000000),T40(1000000)
COMMON /T39/ T39(1000000),T40(1000000)
COMMON /T40/ T40(1000000)
COMMON /T41/ T41(1000000),T42(1000000),T43(1000000),T44(1000000),T45(1000000),
+T46(1000000),T47(1000000),T48(1000000),T49(1000000),T50(1000000)
COMMON /T42/ T42(1000000),T43(1000000),T44(1000000),T45(1000000),T46(1000000),
+T47(1000000),T48(1000000),T49(1000000),T50(1000000)
COMMON /T43/ T43(1000000),T44(1000000),T45(1000000),T46(1000000),T47(1000000),
+T48(1000000),T49(1000000),T50(1000000)
COMMON /T44/ T44(1000000),T45(1000000),T46(1000000),T47(1000000),T48(1000000),
+T49(1000000),T50(1000000)
COMMON /T45/ T45(1000000),T46(1000000),T47(1000000),T48(1000000),T49(1000000),
+T50(1000000)
COMMON /T46/ T46(1000000),T47(1000000),T48(1000000),T49(1000000),T50(1000000)
COMMON /T47/ T47(1000000),T48(1000000),T49(1000000),T50(1000000)
COMMON /T48/ T48(1000000),T49(1000000),T50(1000000)
COMMON /T49/ T49(1000000),T50(1000000)
COMMON /T50/ T50(1000000)
COMMON /T51/ T51(1000000),T52(1000000),T53(1000000),T54(1000000),T55(1000000),
+T56(1000000),T57(1000000),T58(1000000),T59(1000000),T60(1000000)
COMMON /T52/ T52(1000000),T53(1000000),T54(1000000),T55(1000000),T56(1000000),
+T57(1000000),T58(1000000),T59(1000000),T60(1000000)
COMMON /T53/ T53(1000000),T54(1000000),T55(1000000),T56(1000000),T57(1000000),
+T58(1000000),T59(1000000),T60(1000000)
COMMON /T54/ T54(1000000),T55(1000000),T56(1000000),T57(1000000),T58(1000000),
+T59(1000000),T60(1000000)
COMMON /T
```

DATA SET - NON-STANDARD STATEMENTS

```

1000  FORMAT( 'PASS-VALUE = ', I10, ' ')
1001  FORMAT( 'WE EXE. RUN DATE: ', I4, ' ', I4, ' ')
1002  FORMAT( ' NOTHING PERFORMED FOR ', I4, ' THIS INPUT DATA ITEM. DATA I
      TEM = ', I4, ' IN ' )
1003  FORMAT( ' TEMPORARY FILE NAME: ', I4, ' HAS BEEN REMOVED ')
1004  FORMAT( ' THE ARRAY: ', I4, ' HAS BEEN DELETED IN DATA SET NO: ', I4, ' ')
1005  FORMAT( ' THE ARRAY: ', I4, ' HAS BEEN DELETED FROM DATA SET NO: ', I4, ' ')
1006  FORMAT( ' THE ARRAY: ', I4, ' HAS BEEN SET TO: ', I4, ' ')
1007  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE WELT: ', I4, ' ')
1008  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE TSARY: ', I4, ' ')
1009  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE FENAY: ', I4, ' ')
1010  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE COENT: ', I4, ' ')
1011  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE ANIARY: ', I4, ' ')
1012  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE PLTHM: ', I4, ' ')
1013  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE SPEAVG: ', I4, ' ')
1014  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE CLUTTR: ', I4, ' ')
1015  FORMAT( ' (THE CLUTTR MODEL HAS NOT BEEN PROPERLY INITIALIZED BY '
      ' CLINT: ', I4, ' CLUTTR: ', I4, ' WILL NOT BE EXECUTED. ) ')
1016  FORMAT( ' NON-STANDARD RETURN FROM SUBROUTINE CONV: ', I4, ' ')
1017  FORMAT( ' SUBROUTINE TONYAT NOT EXECUTED: ', I4, ' ')
1018  FORMAT( ' STEP: ', I4, ' WITH MODULE = ', I4, ' HAS SCHEDULED AN OP
      ERATION WITH EXEC NUMBER: ', I4, ' WHICH IS OUT OF RANGE: ', I4, ' ')
1019  FORMAT( ' (A CONDITION EXISTS WHICH WILL CAUSE THE REMAINDER OF THE
      S CONFIGURATION TO BE BYPASSED. ) ')
1020  FORMAT( ' THIS JOB COMPLETE: ', I4, ' ')
1021  FORMAT( ' THIS JOB ABORTED BECAUSE OF IMPROPER INPUT DATA: ', I4, ' ')
1022  FORMAT( ' PRINT OUT FROM ACTIVITY: ', I4, ' ')

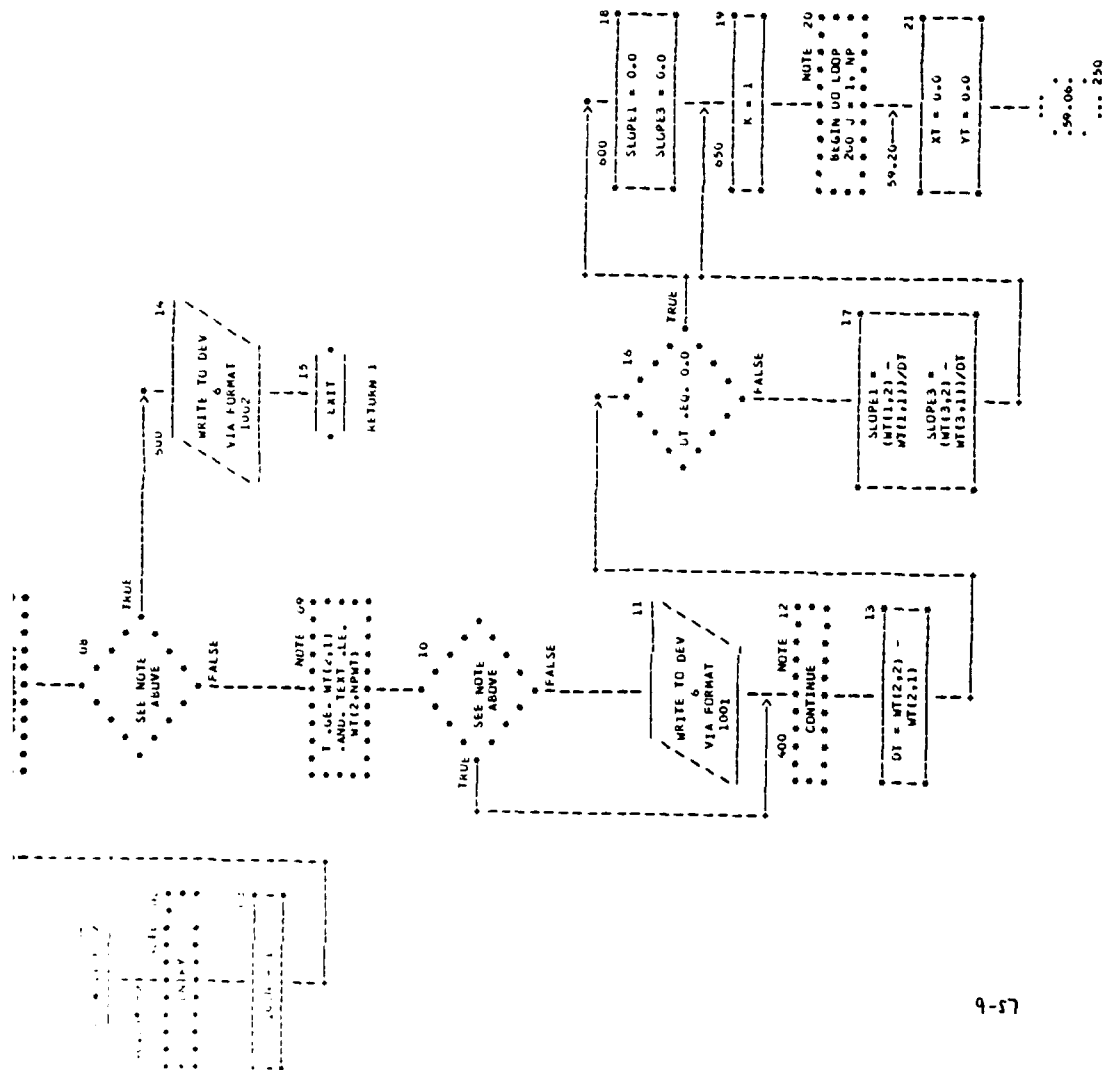
```


08/11/75

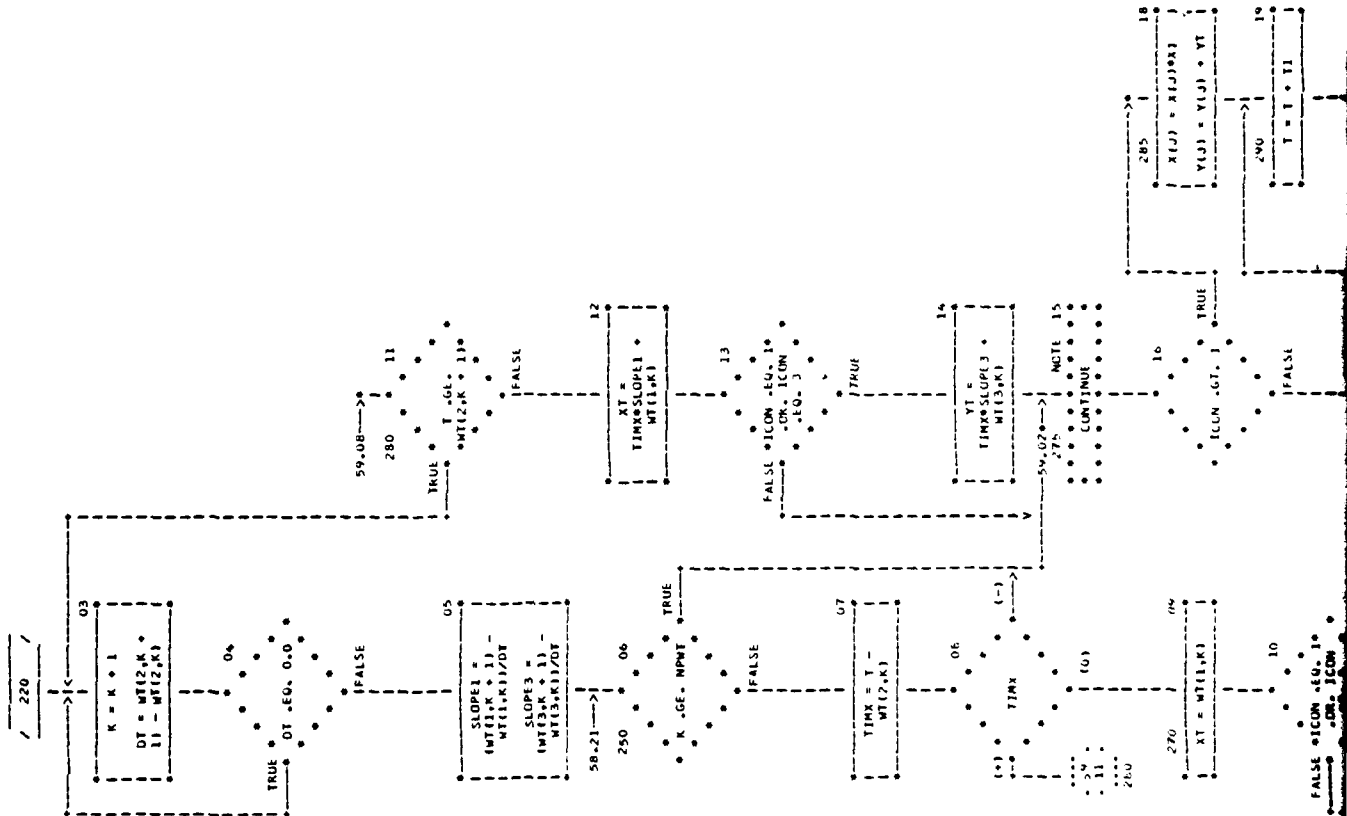
AUTOFLOW CHART SET - FWD/SCL RADSIM

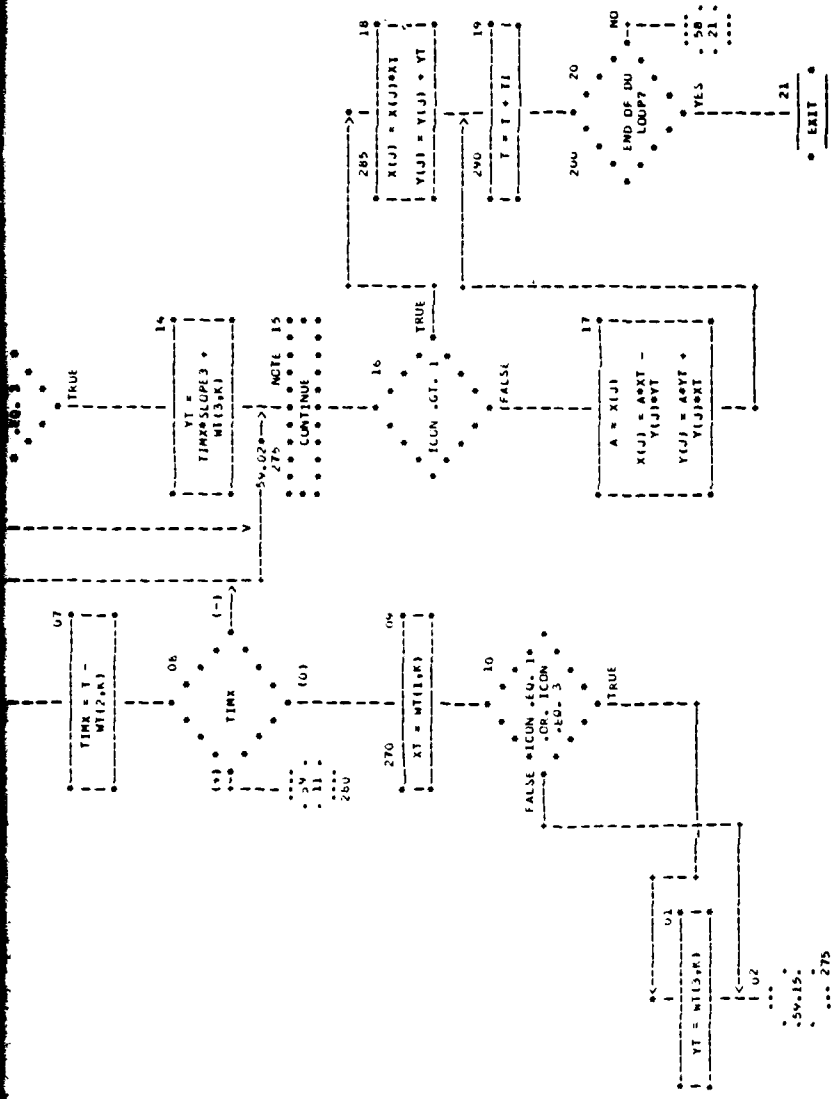
CHART TITLE - NON-PROCEDURAL STATEMENTS

```
COMMON/BLK1/ BK1(200),FZERO(2,50),FPOLE(2,50)
EQUIVALENCE ( NZ ,BK1(72)) , ( NP ,BK1(73)) , ( SF ,BK1(74))
DIMENSION X(1), Y(1)
DATA N193,N194,N195,N196/-3,-2,-1,0/
```

AUTOFLOW CHART SET - FWD/SCL RADSIM





06/11/75 AUTOFLUW CHART SET - FWD/SCL RAUSIM

CHART TITLE - NO. - PROCEDURAL STATEMENTS

```

COMMON/BLK1/BLK1(500)
DIMENSION X(1), Y(1), WT(3,100)
EQUIVALENCE (BLK1( 21),IDMY      ),
              (BLK1( 37), NPWT     ), (BLK1( 38), ORIG      ),
              (BLK1(201), WT(1,1) )

DATA N193,N194,N195,N196/-3,-2,-1,0/
DATA A1/7.45654044E05/

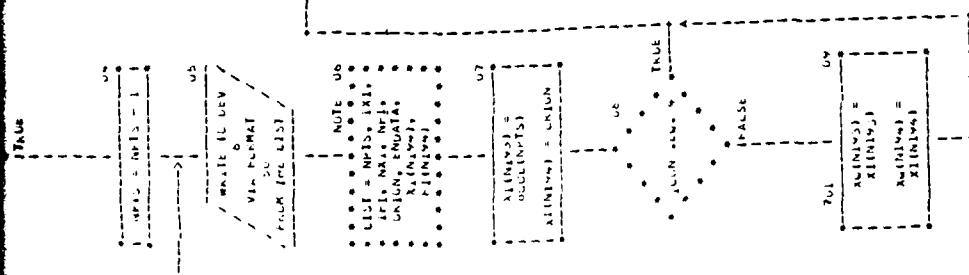
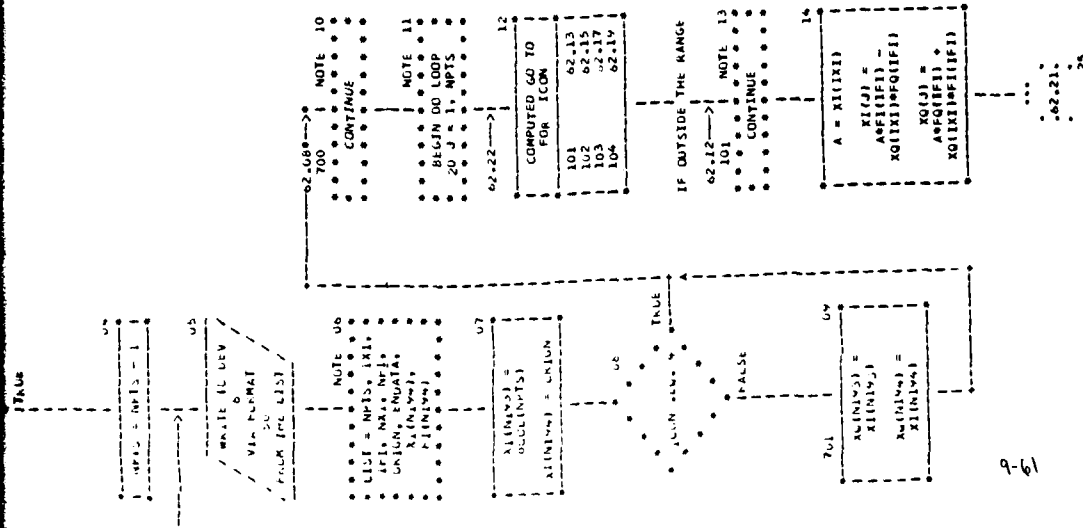
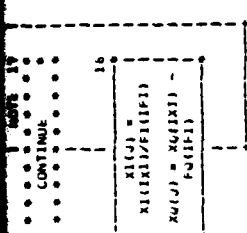
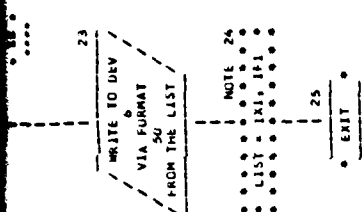
1001  FORMAT( ' THE WEIGHTING ARRAY, WT, IS NOT DEFINED OVER THE COMPLETE
      INPUT DATA RECORD. THE OUTPUT IS SET TO ZERO IN THE UNDEFINED REGI
      UNS.' / / )

1002  FORMAT( ' THE WEIGHTING ARRAY, WT, IS NOT PROPERLY DEFINED. TH
      E WEIGHTING OPERATION WILL NOT BE PERFORMED.' // )

```

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    199 --> 200[200]
    200 --> 201[201]
    201 --> 202[202]
    202 --> 203[203]
    203 --> 204[204]
    204 --> 205[205]
    205 --> 206[206]
    206 --> 207[207]
    207 --> 208[208]
    208 --> 209[209]
    209 --> 210[210]
    210 --> 211[211]
    211 --> 212[212]
    212 --> 213[213]
    213 --> 214[214]
    214 --> 215[215]
    215 --> 216[216]
    216 --> 217[217]
    217 --> 218[218]
    218 --> 219[219]
    219 --> 220[220]
    220 --> 221[221]
    221 --> 222[222]
    222 --> 223[223]
    223 --> 224[224]
    224 --> 225[225]
    225 --> 226[226]
    226 --> 227[227]
    227 --> 228[228]
    228 --> 229[229]
    229 --> 230[230]
    230 --> 231[231]
    231 --> 2
```

AUTOFLOW CHART SET - FWD/SCL RADSIM

08/11/75

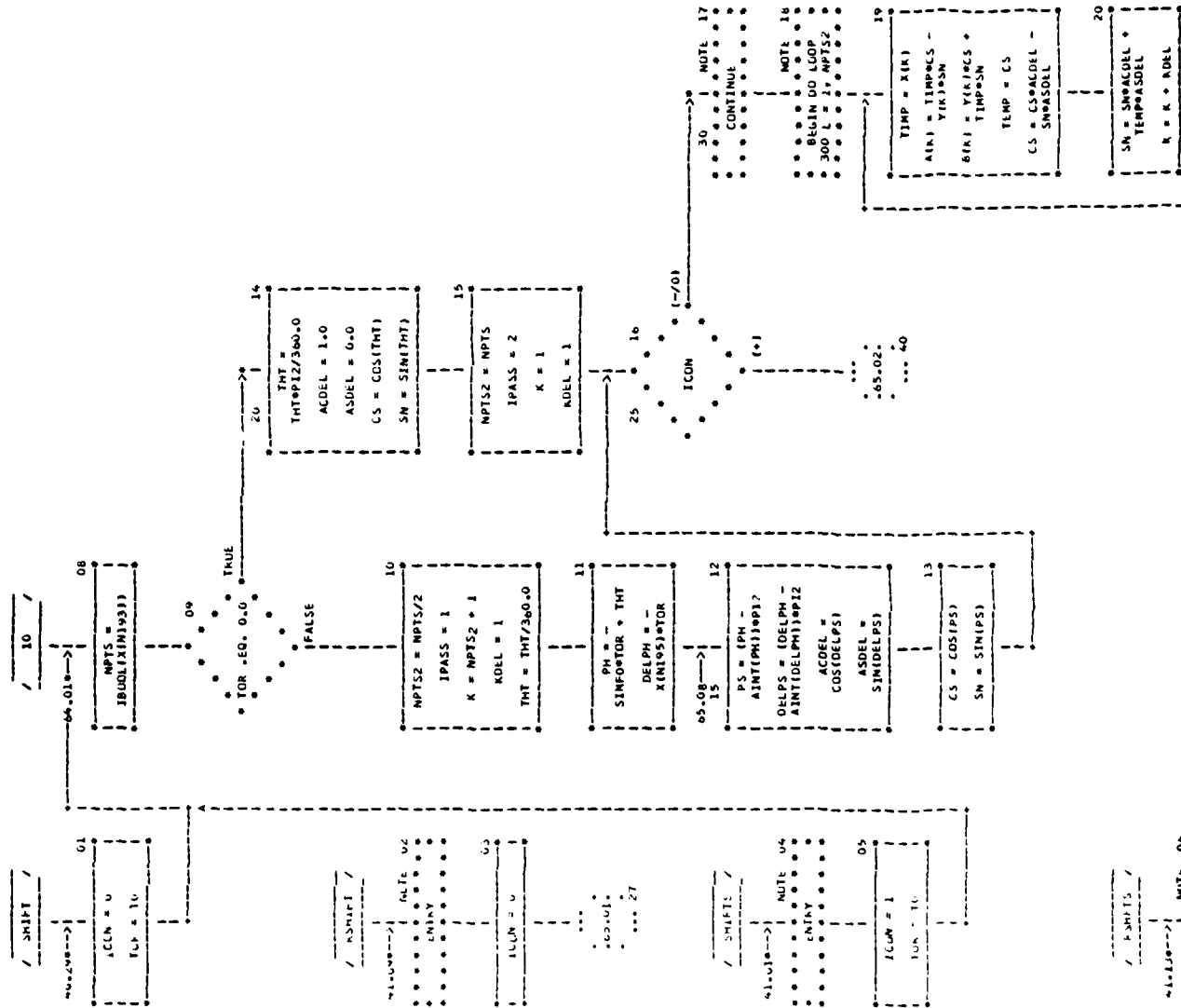
CHART TITLE - NON-PROCEDURAL STATEMENTS

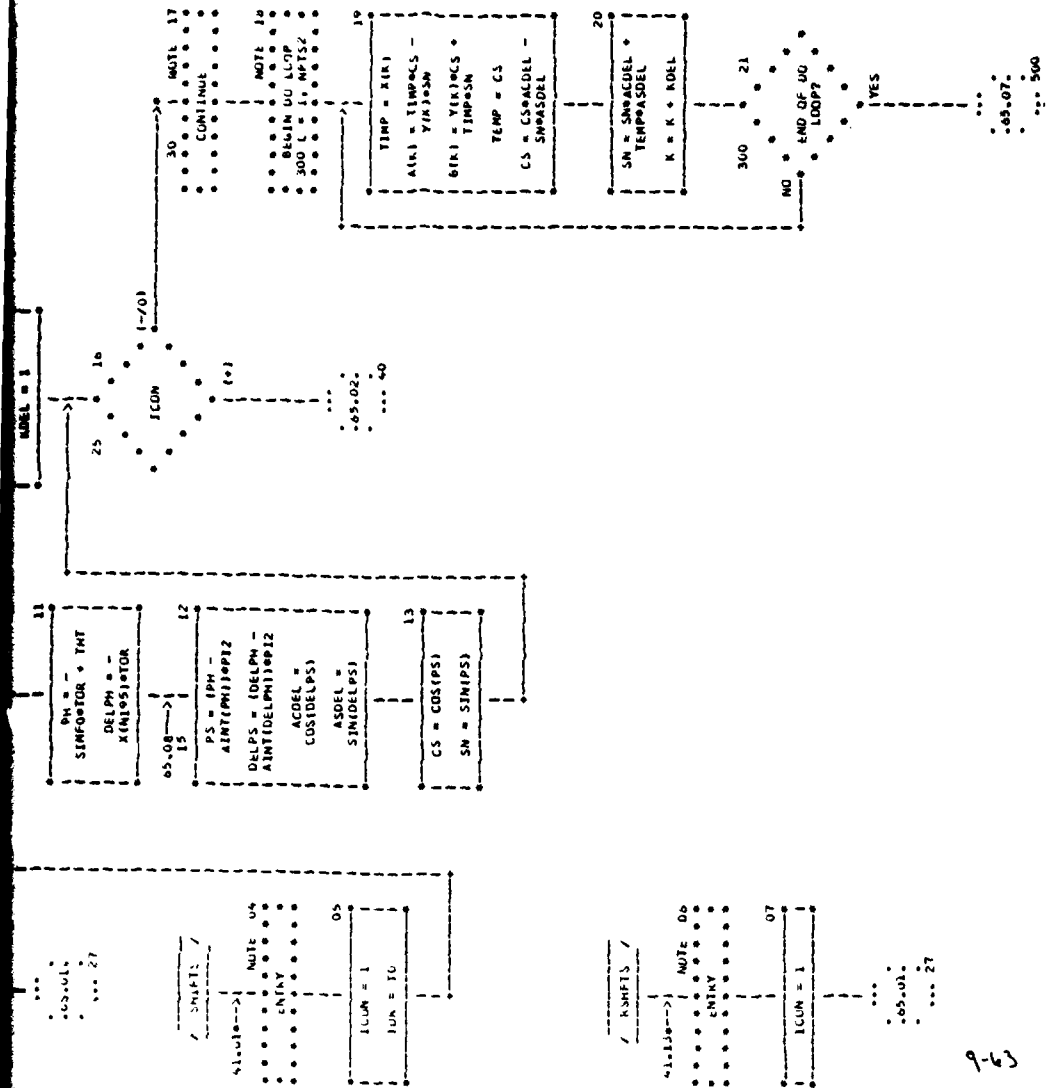
	DIMENSION XI(1),XG(1),FI(1),FQ(1)
	DATA NI93,N194,N195,N196/-3,-2,-1,0/
50	FORMAT(IH ,5I12,4E14.6)
201	FORMAT(' INDEPENDENT VARIABLE INCREMENTS DU NOT MATCH ')

08/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE SHIFT(R,Y,A,B)



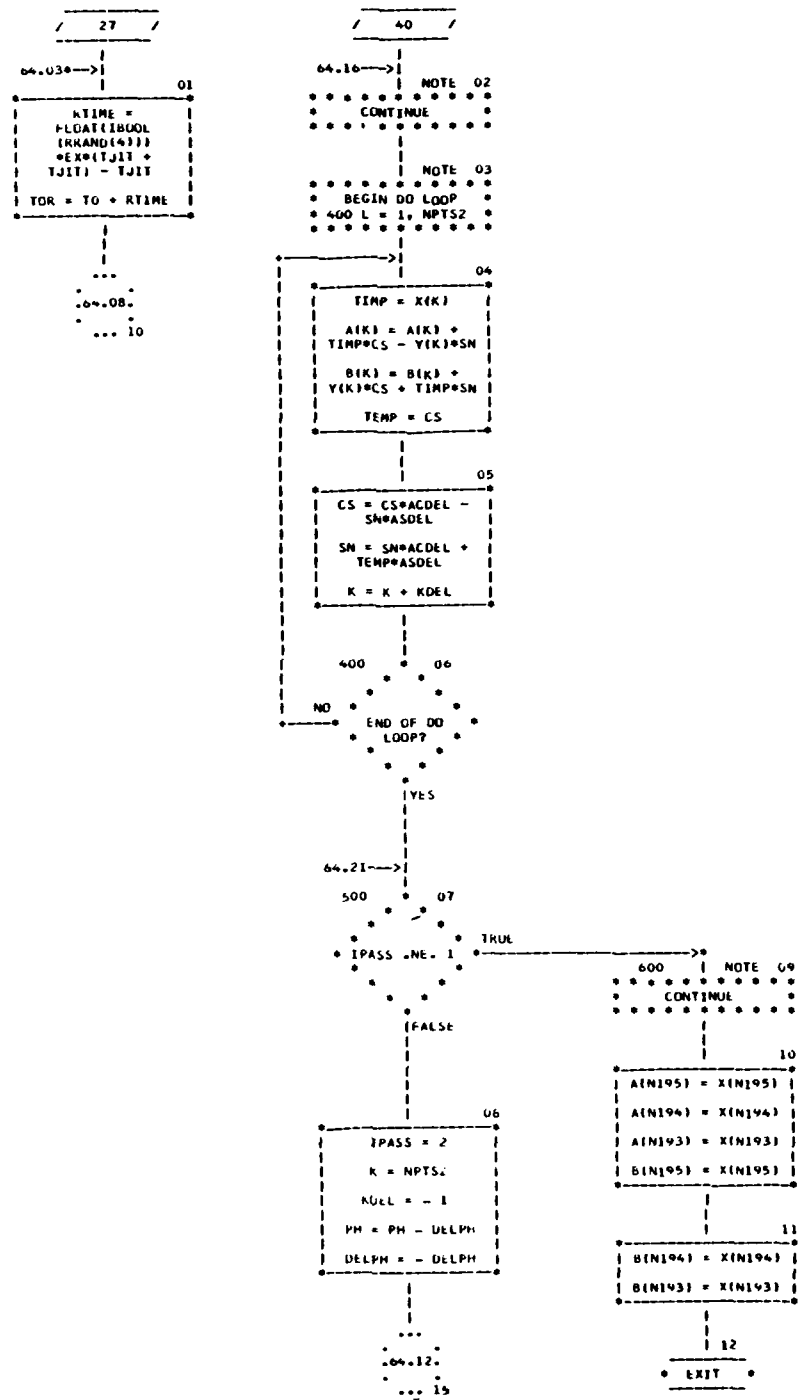


9-63

06/11/75

AUTOFLOW CHART SET - FMO/SCL RADSIM

CHART TITLE - SUBROUTINE SHIFT(X,Y,A,B)



08/11/75

AUTOFLOW CHART SET - FWC/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

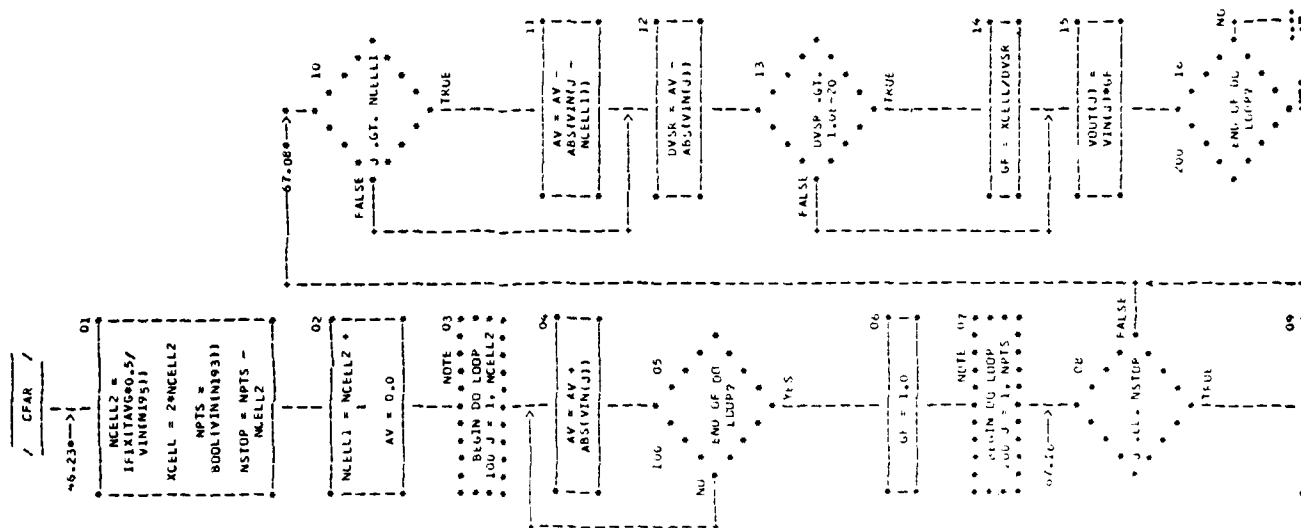
```
COMMON/BLK1/ BK1(200)
EQUIVALENCE (BK1(180),TC),(BK1(181),THT),(BK1(182),TJIT)
              ,(BK1(E),SIMFO)
DIMENSION X(1),Y(1),A(1),B(1)
DATA N193,N194,N195,N196/-3,-2,-1,0/
DATA PI2,EX/6.2831853,2.9103830E-11/
```

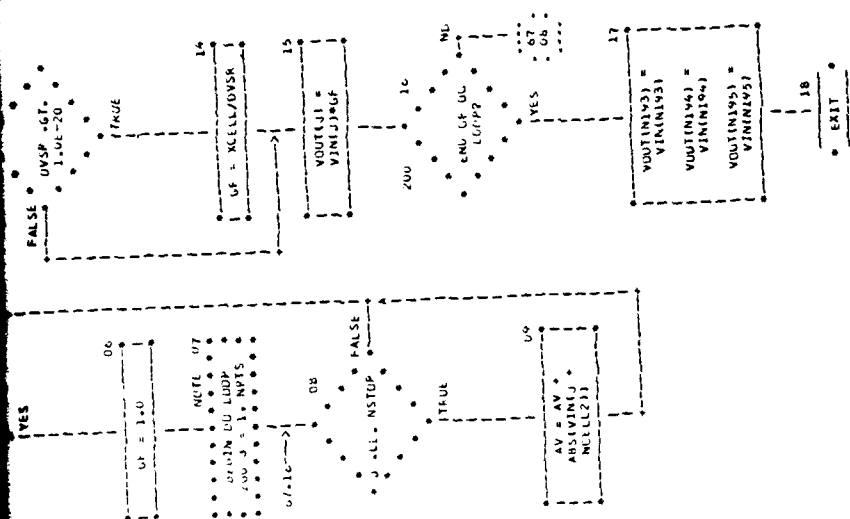
08/11/75

CHART TITLE - SUBROUTINE CFAR(VIN,VOUT)

9-66

AUTOFLOW CHART SET - FMO/SCL RADSIM



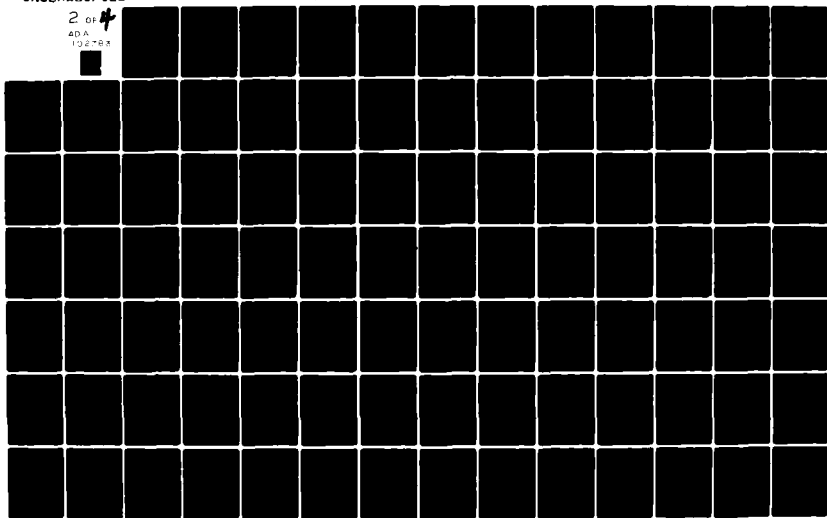


AD-A102 783

GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/G 17/9
ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING, VOLUME II, PAR--ETC(U)
JUN 76 R J HANCOCK, F H CLEVELAND F30602-73-C-0380
RADC-TR-76-186-VOL-2-PT-2 NL

UNCLASSIFIED

2 OF 4
ADA
102 783



08/11/75

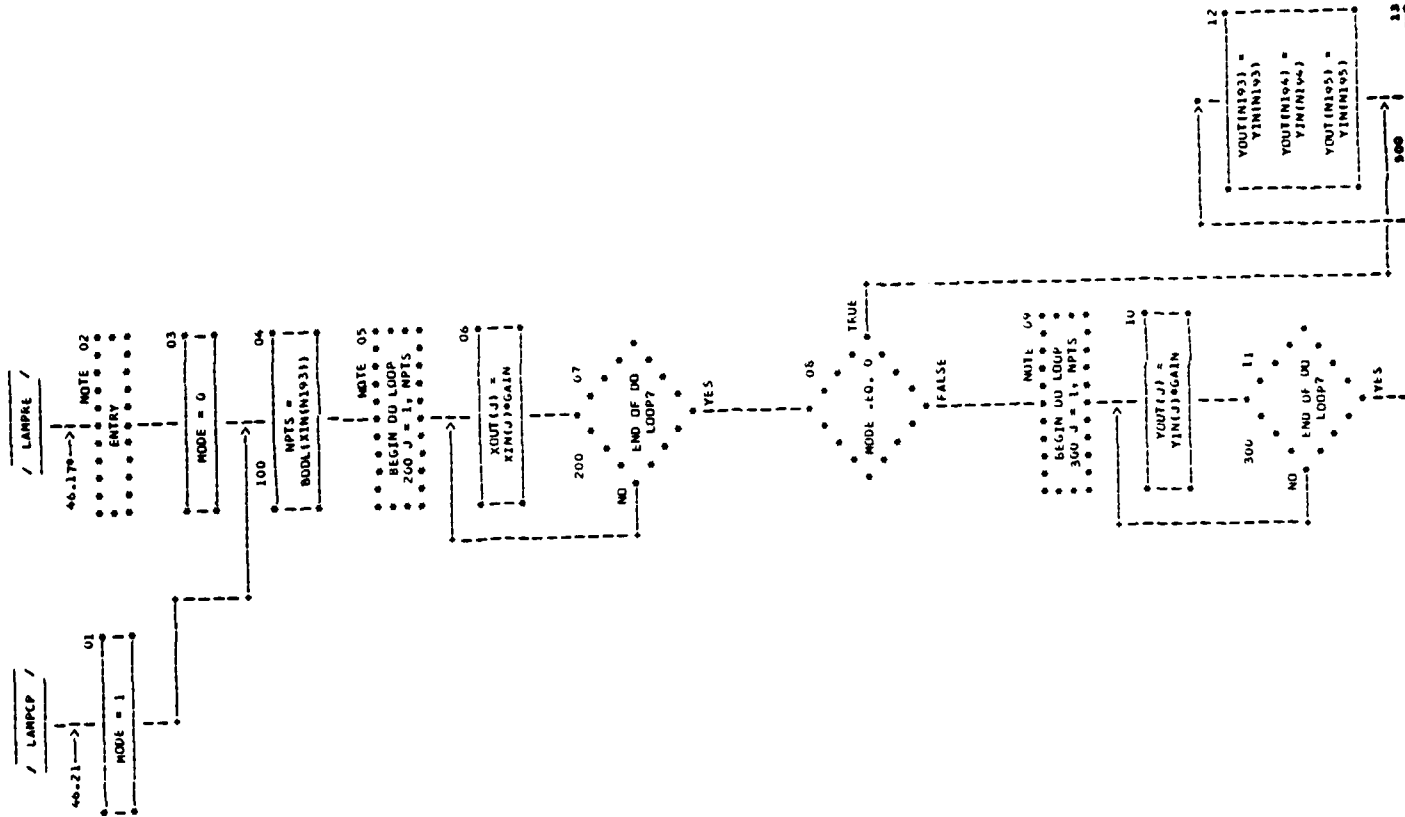
AUTOFLUX CHART SET - FWL/SCL RAUSIM

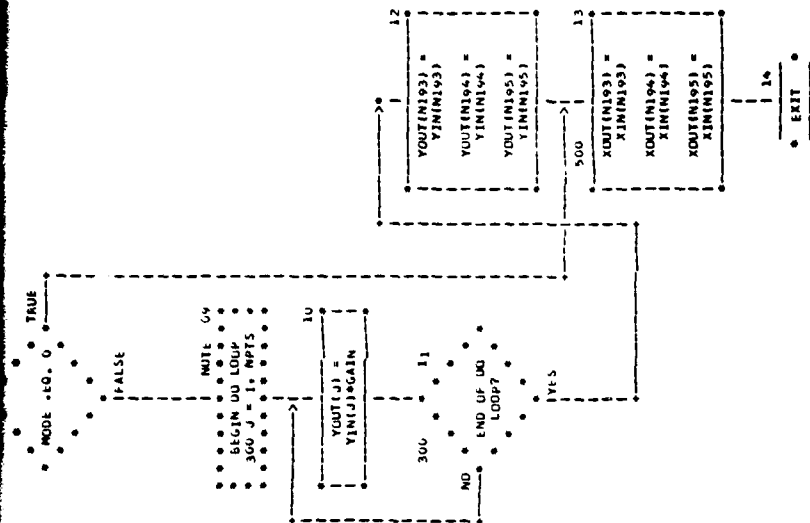
CHART TITLE - NON-REFUGEDURAL STATEMENTS

COMMON/BLK1/ BK1(200)
DIMENSION VIN(1),VOUT(1)
EQUIVALENCE (BK1(106), TAVG)
DATA N193,N194,N195/-3,-2,-1/

CHART TITLE - SUBROUTINE LAMPCL(XIN,YIN,XOUT,YOUT)

4-68





08/11/75

AUTOFLOW CHART SET - FWD/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

9-69

DIMENSION XIN(1),YIN(1),XOUT(1),YOUT(1)

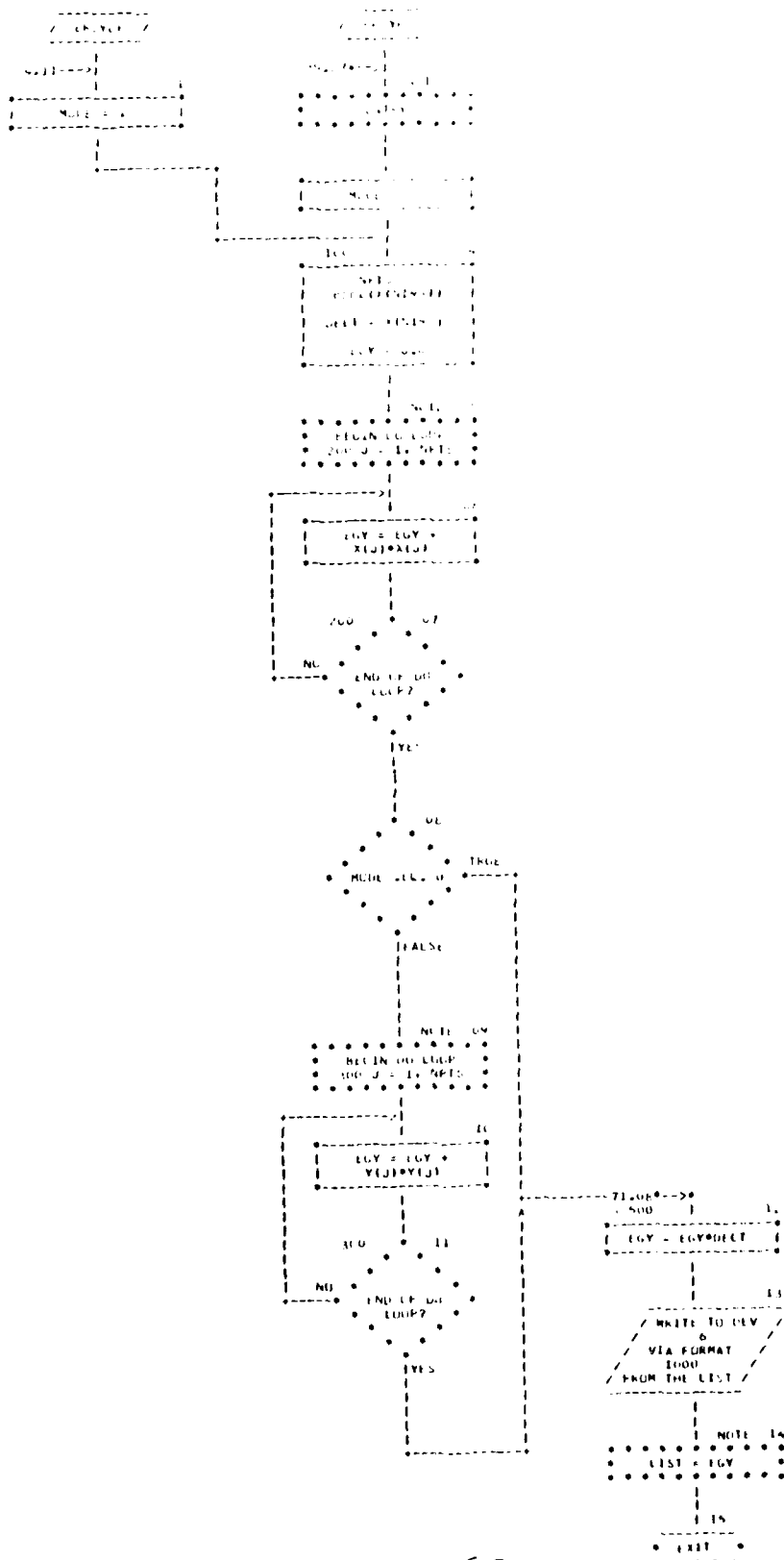
COMMON/BLK1/ B(200)

DATA N193,N194,N195/-3,-2,-1/

EQUIVALENCE (B(145) , GAIN)

000000

000000 000000 000000



AUTOFLOW CHART SET - FWC/SCL KADSIM

08/11/75

CHART TITLE - RUN-PROCEDURAL STATEMENTS

DIMENSION X(1),Y(1)

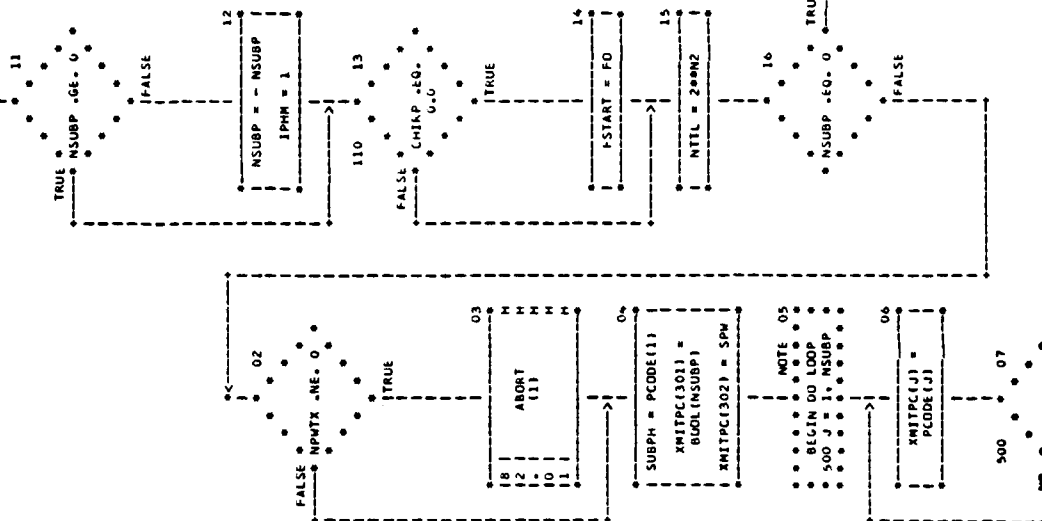
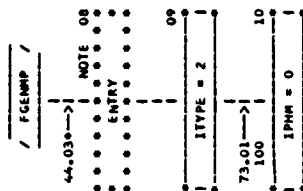
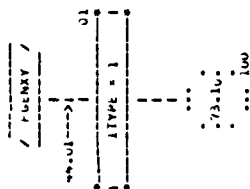
DATA N193,N194,N195/-3,-2,-1/

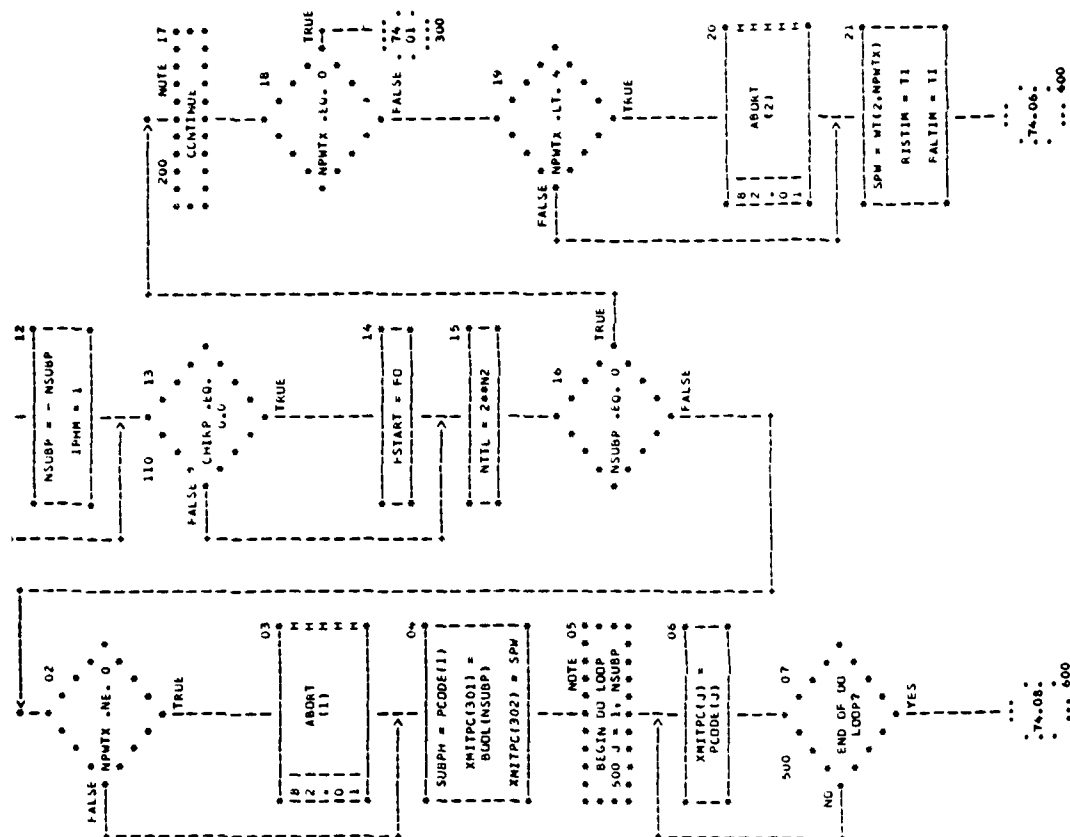
1000 FORMAT(0 ENERGY IN THE WAVEFORM =0,E15.5,0 WATT-NANUSECONDS 0)

08/11/75

AUTOFLOW CHART SET - FMD/SCL RADSIM

CHART TITLE - SUBROUTINE FGENY(X,Y)

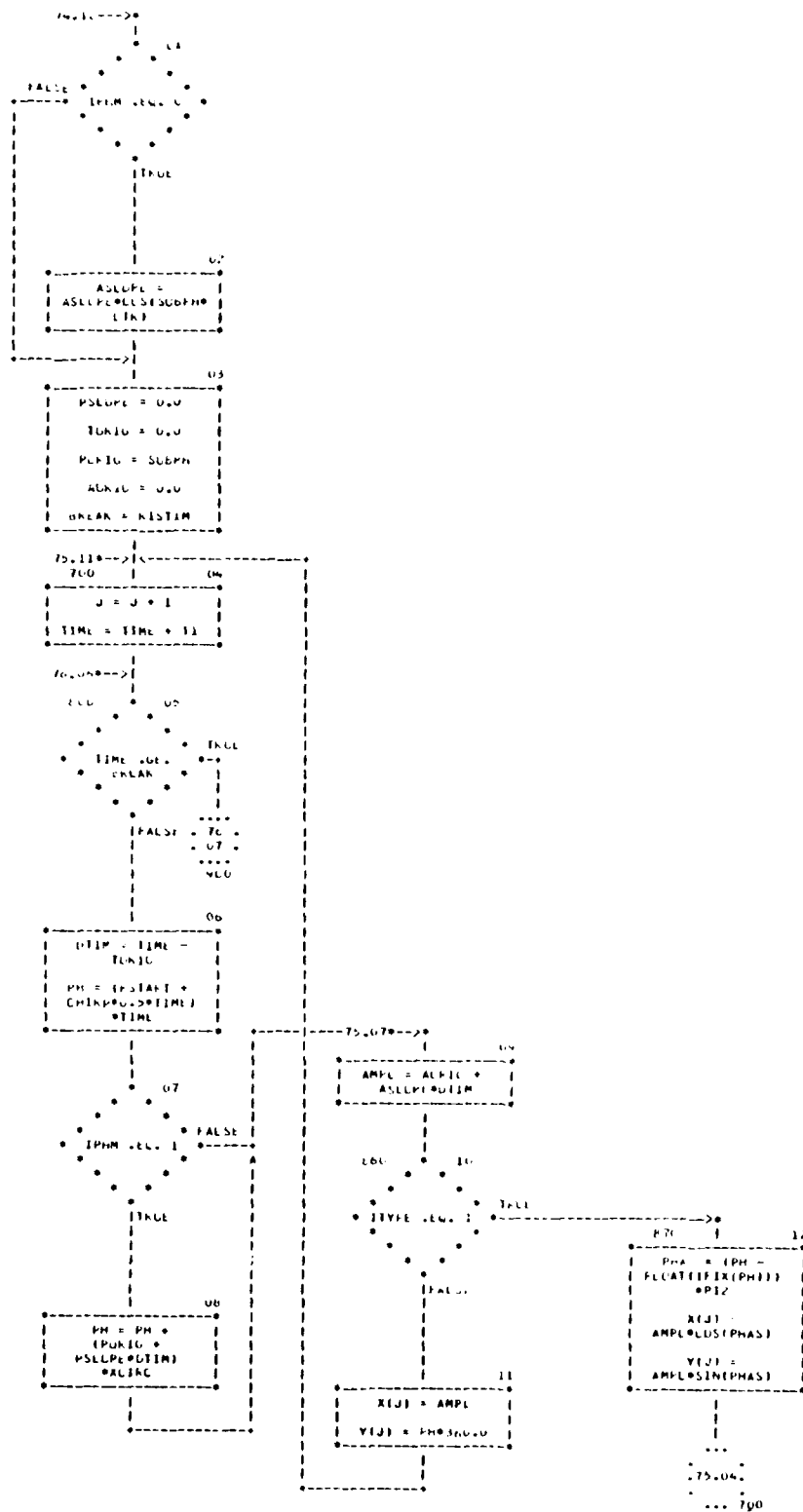




6. The following are the results of the regression analysis:

[illegible]

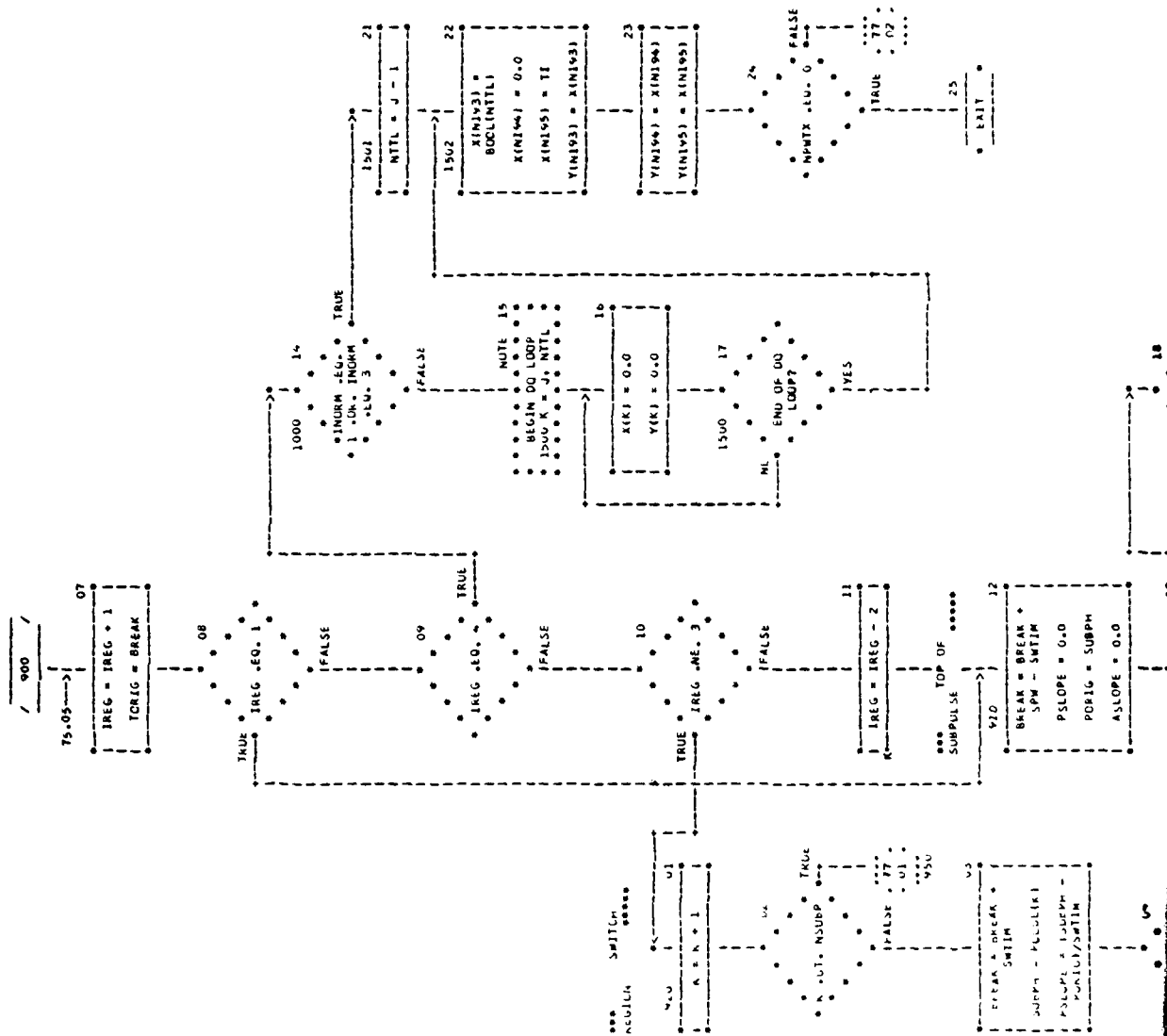
GRAPH TITLE = SUBROUTINE FOURNAY(Y)

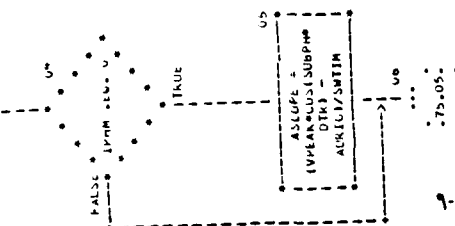
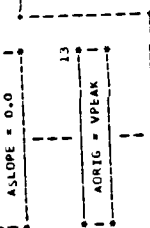
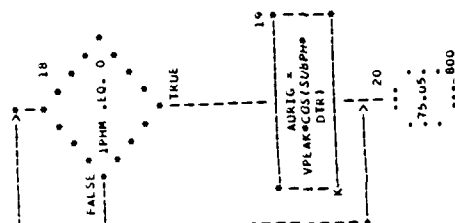
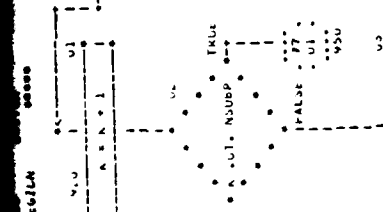
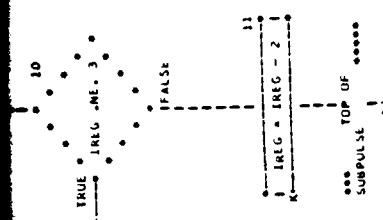
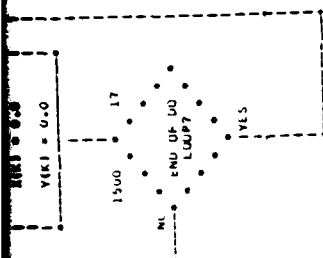
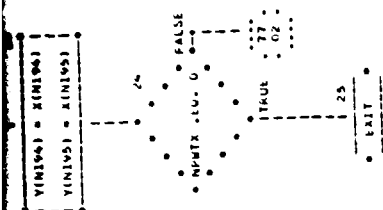


08/11/75

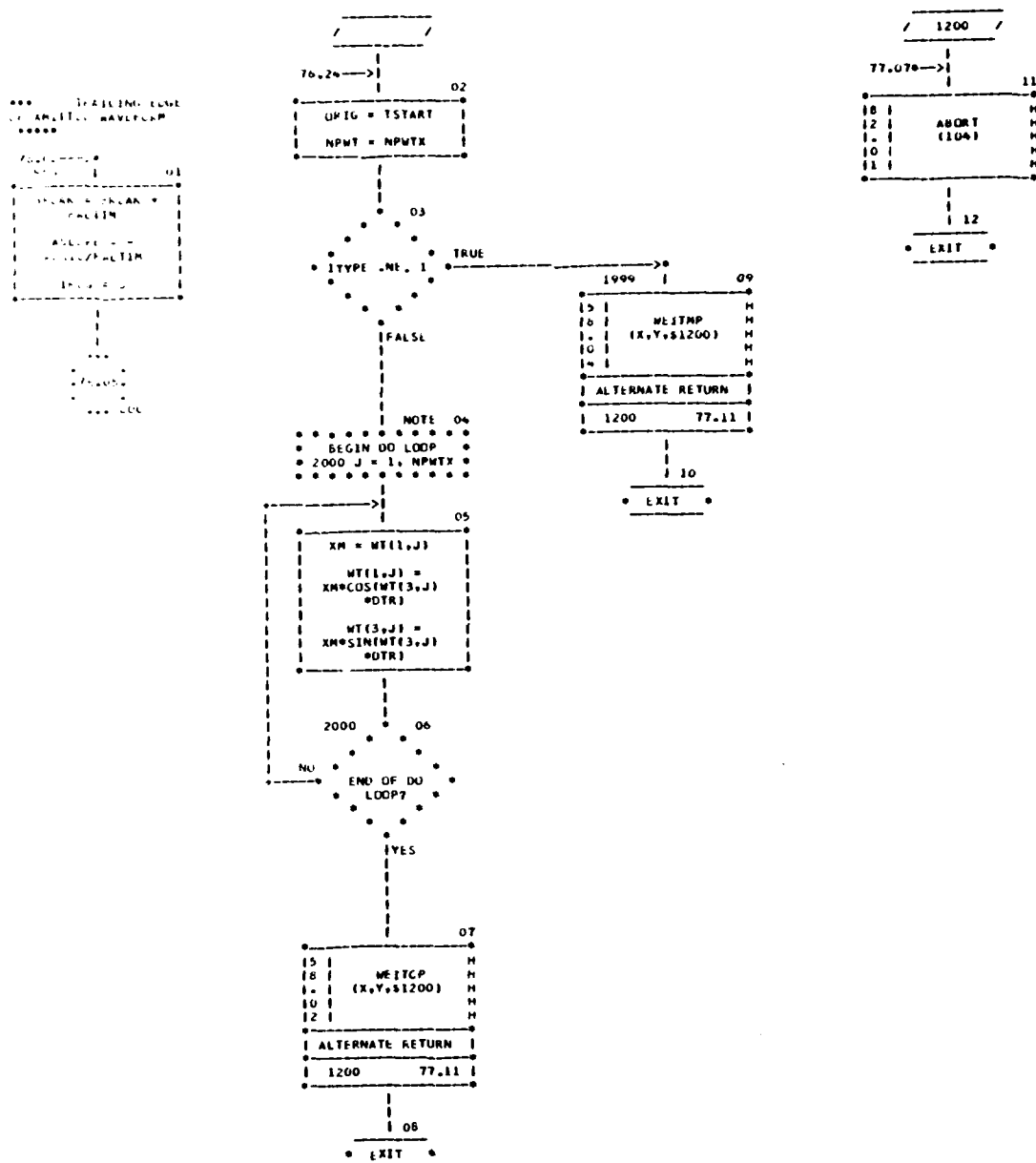
AUTOFLOW CHART SET - PMO/SEL RADSIM

CHART TITLE - SUBROUTINE PGM(X,Y)





MAIN TITLE - SUBROUTINE FGENXY(X,Y)



08/11/75

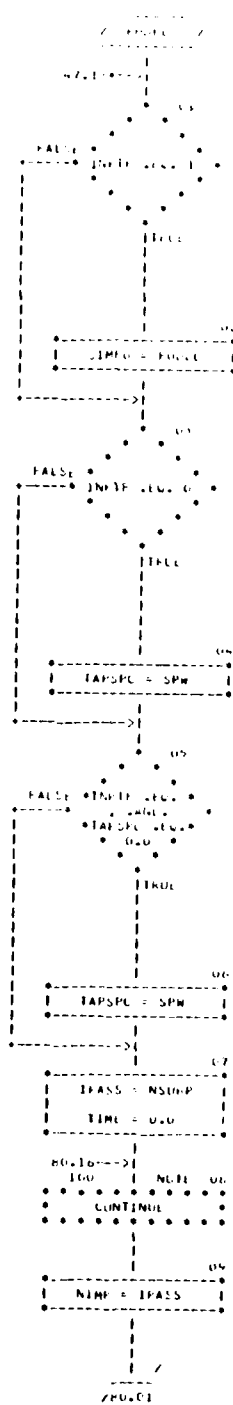
AUTOFLOW CHART SUT - FWD/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

```
COMMON/BLK1/ VAR(200), WT(3,100)
COMMON/PHCODE/ XMITPC(302)
DIMENSION PCODE(300),X(1),Y(1)
EQUIVALENCE (WT(1,1),PCODE(1))
EQUIVALENCE (VAR( 2),FS  ), (VAR( 6),FC  ),
              (VAR( 9),INORM ),
              (VAR( 12),TI  ), (VAR( 37),NPWT ),
              (VAR(36),LRIG ), (VAR( 42),CHIRP ),
              (VAR( 43),FMEW ), (VAR( 44),NPWTX ),
              (VAR( 45),SPW  ), (VAR( 46),NSUBP ),
              (VAR( 47),SWTIM ), (VAR( 48),NISTIM),
              (VAR( 49),FALTIM ), (VAR(100),TSTAKT),
              (VAR( 41),FSTAKT ), (VAR( 40),PW  ),
              (VAR(129),VPEAK ), (VAR( 1),N2  )
```

DATA N193,N194,N195,UTK/-3,-2,-1,1.7453292E-02/

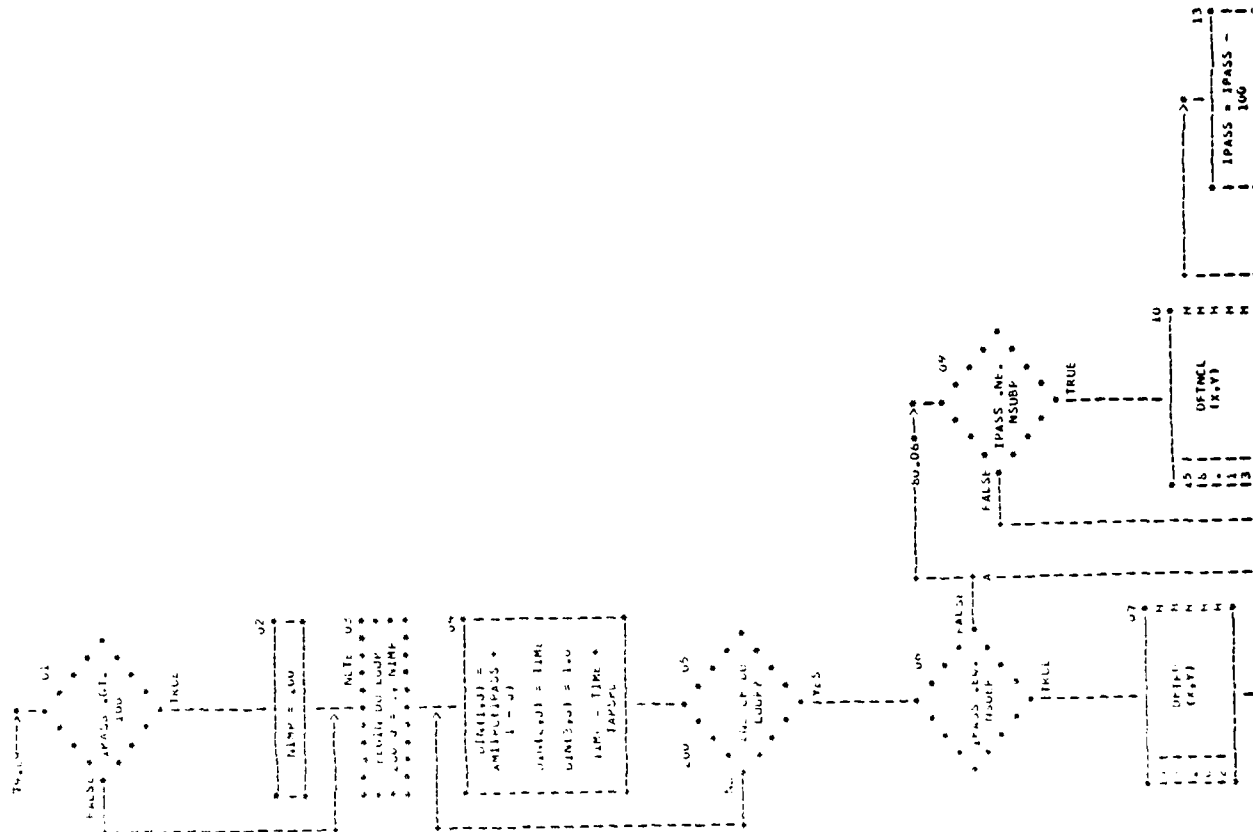
DATA XCIRC/2.7777E-03/,PI2/6.2831853/

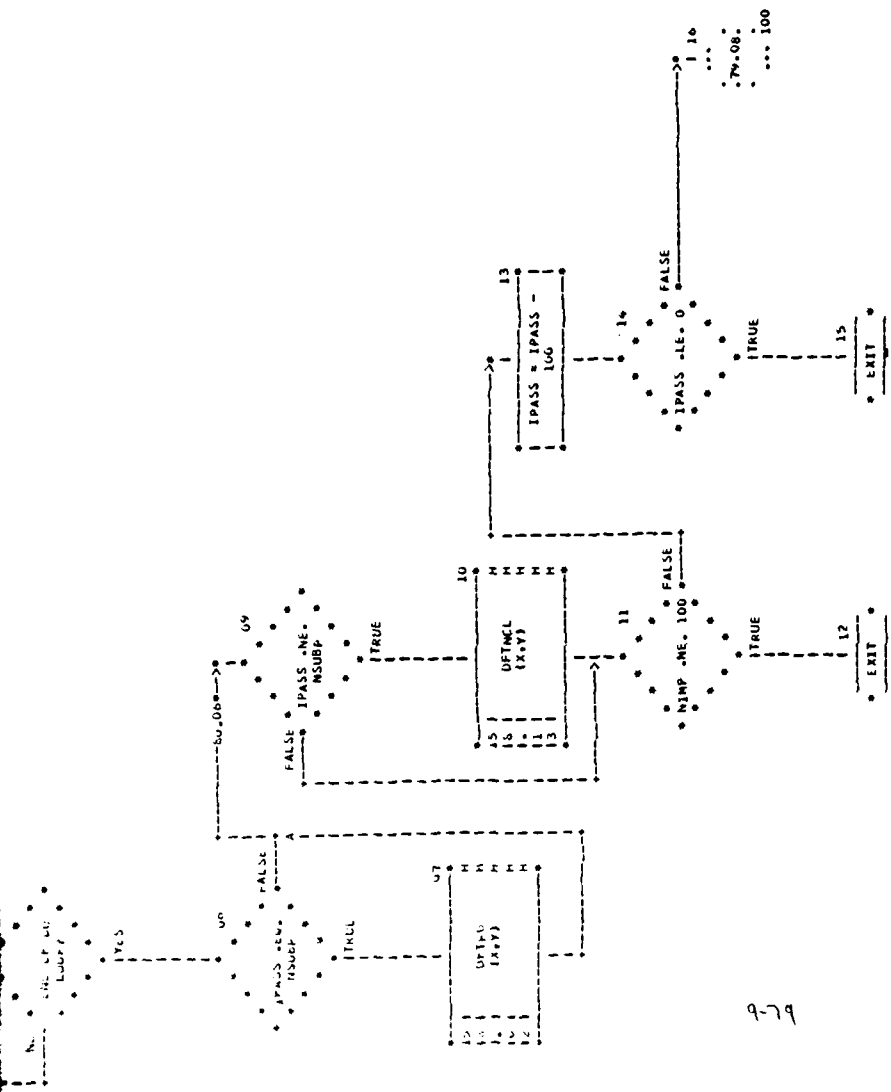
[illegible][illegible]

9-78

AUTOFLOW CHART SET - FWD/SCL RADSSIM

CHART TITLE - SUBROUTINE PHDEC(X,Y)





9-79

02/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

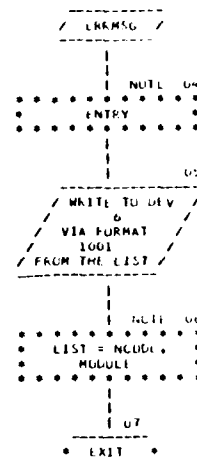
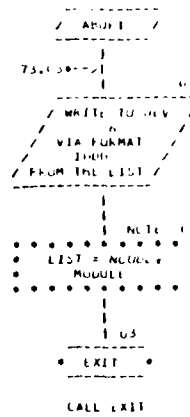
CHART TITLE - NON-PROCEDURAL STATEMENTS

```
DIMENSION X(1),Y(1)
COMMON/PHCODE/ XMITPC(300),NSUBP,SPW
COMMON/BLK1/ ITEMP(199),NIMP,DIN(3,100)
EQUIVALENCE (ITEMP(102), FODEC), (ITEMP(154), TAPSPC),
              (ITEMP( 8), SIMFO), (ITEMP(155), INPTF)
```

06/11/75

FORMAT* ERROR : *13* OCCURRED DURING EXECUTION OF MODULE : *

CHART TITLE = JCRKQTIME - REENTRANCE



NON-PROCEDURAL STATEMENTS

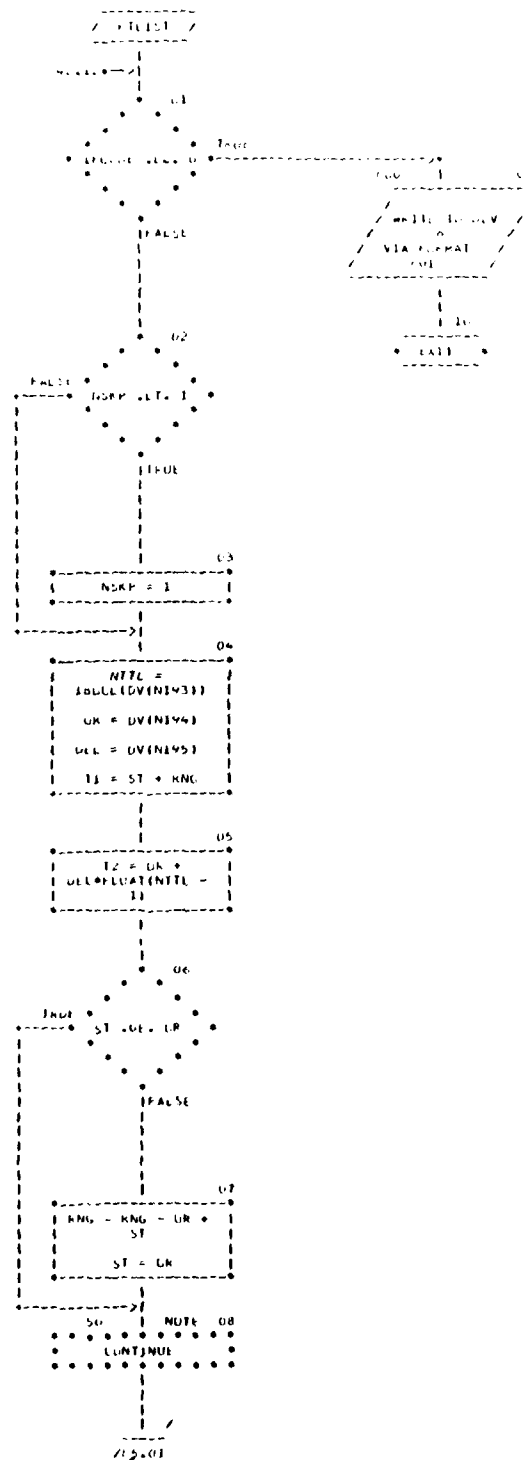
```

COMMON/SYS/ MODULE
1000 FORMAT* ERROR : *13* OCCURRED DURING EXECUTION OF MODULE : *
    13*.....FATAL ERROR; JOB WILL TERMINATE* )
1001 FORMAT* ERROR : *13* OCCURRED DURING EXECUTION OF MODULE : *
    13*.....FIX-UP DONE; REFER TO LOGS; JOB WILL CONTINUE* )
  
```

00.112

7. TOWNSHIP OF THE FIVE SOUTHERN RIVERS

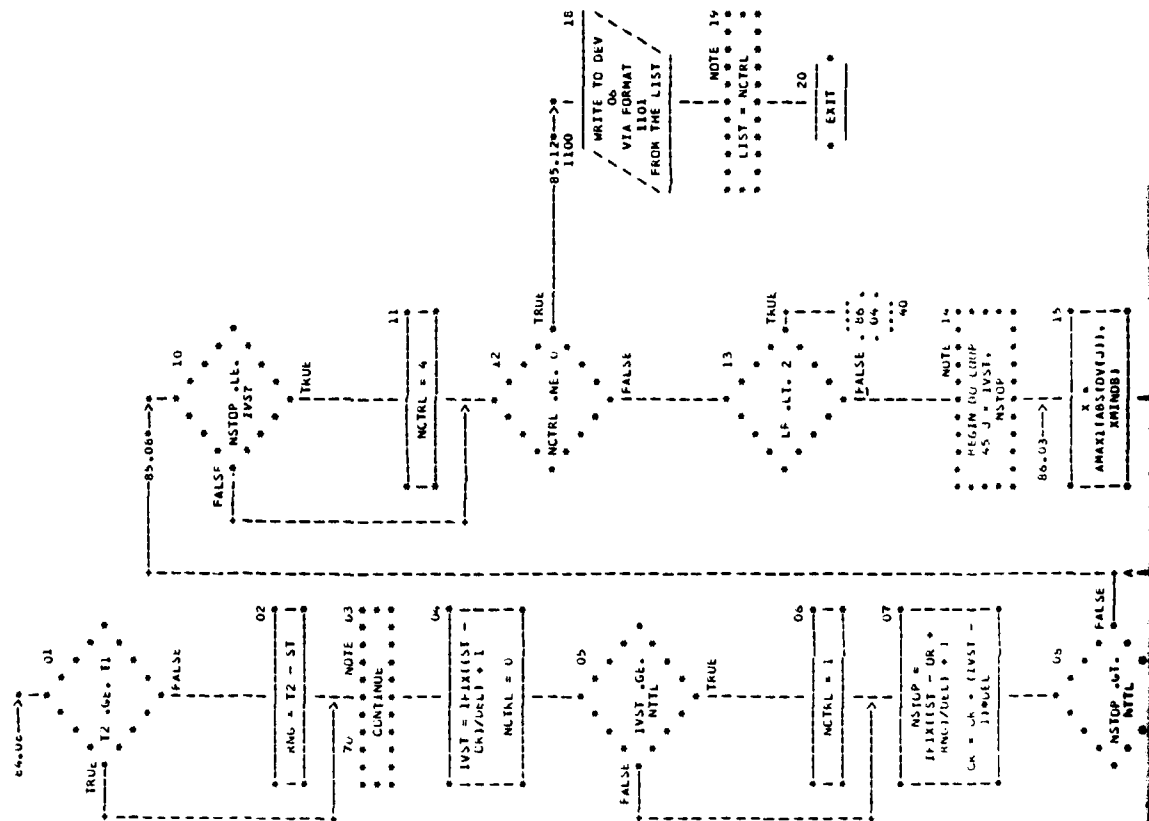
00.112 - 00.112



08/11/75

CHART TITLE - SUBROUTINE PLISTOVI

AUTODOWN CHART SET - FWD/SCL RADSIM

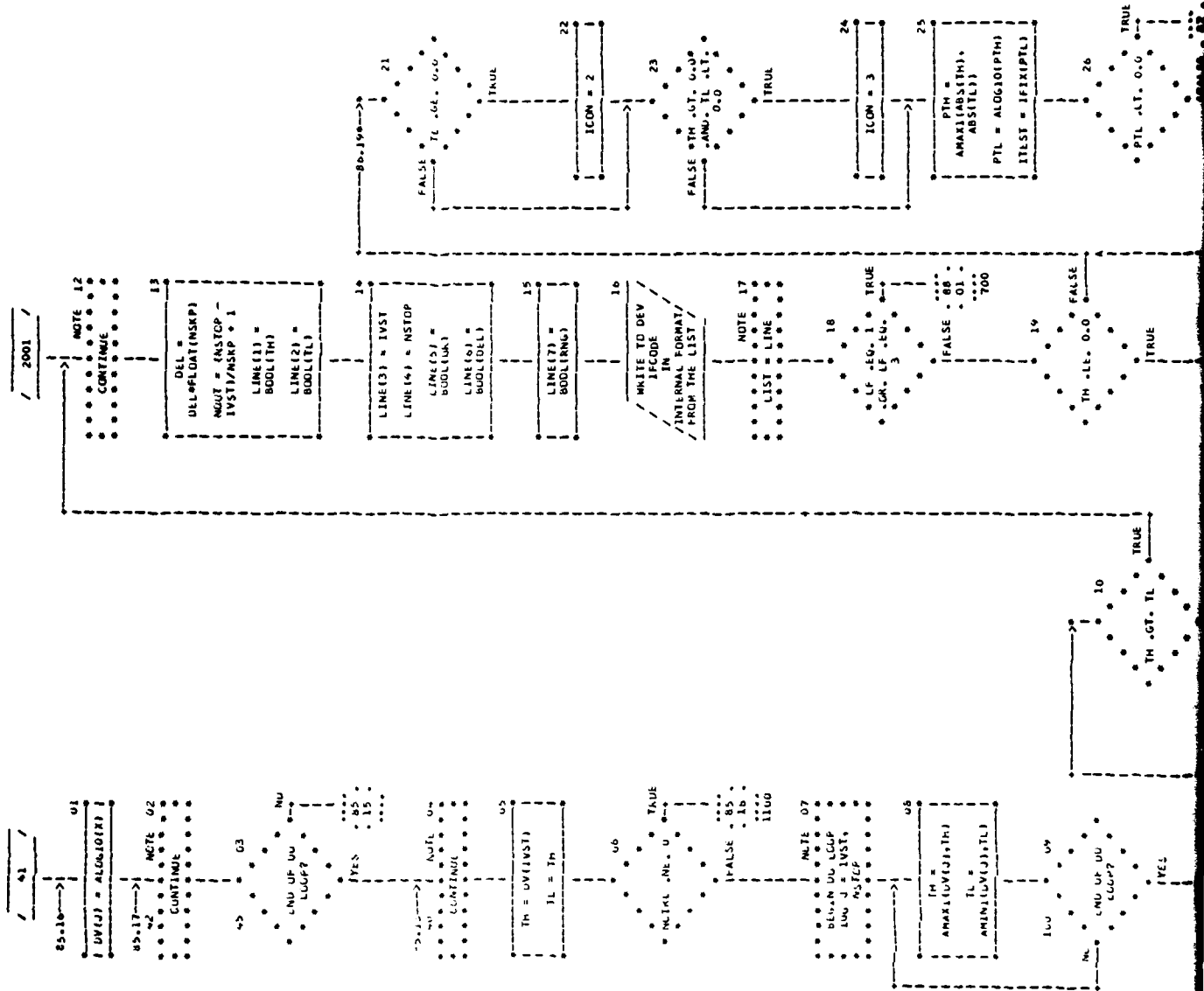


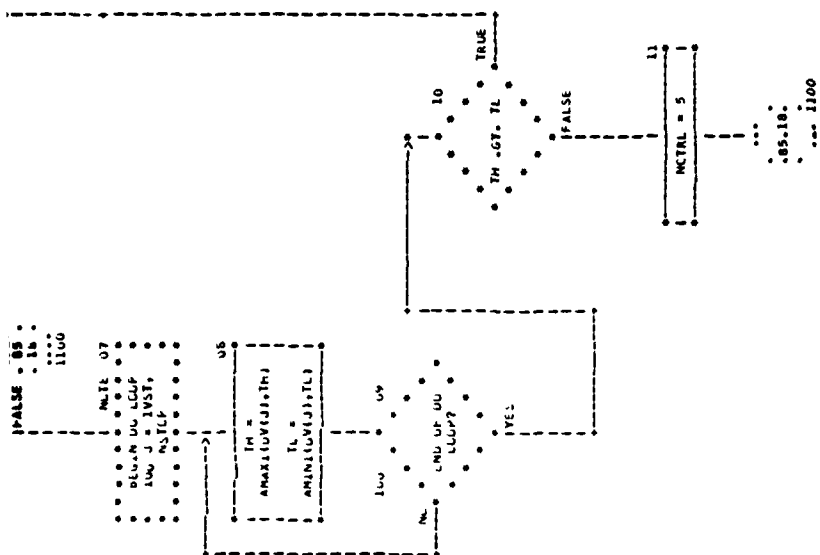


08/11/79

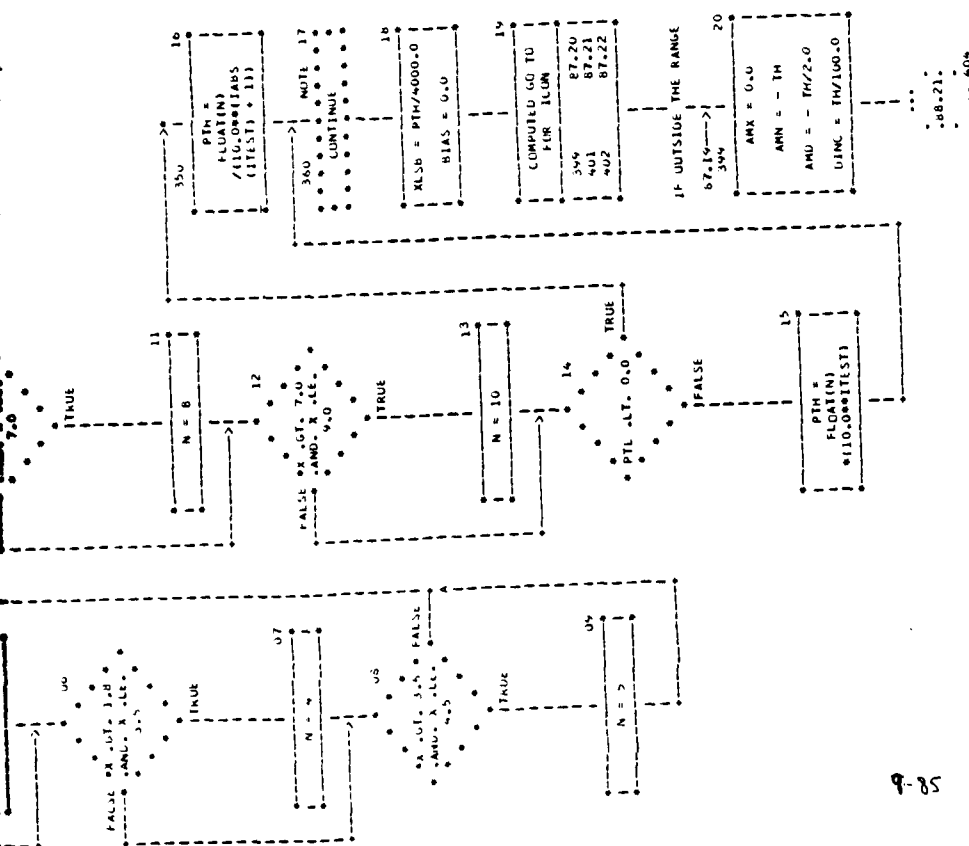
CHART TITLE - SUBROUTINE PTLSTCOW

AUTOFLOW CHART SET - PMO/SCL RADSIM





...
 -88-21-
 ... 404

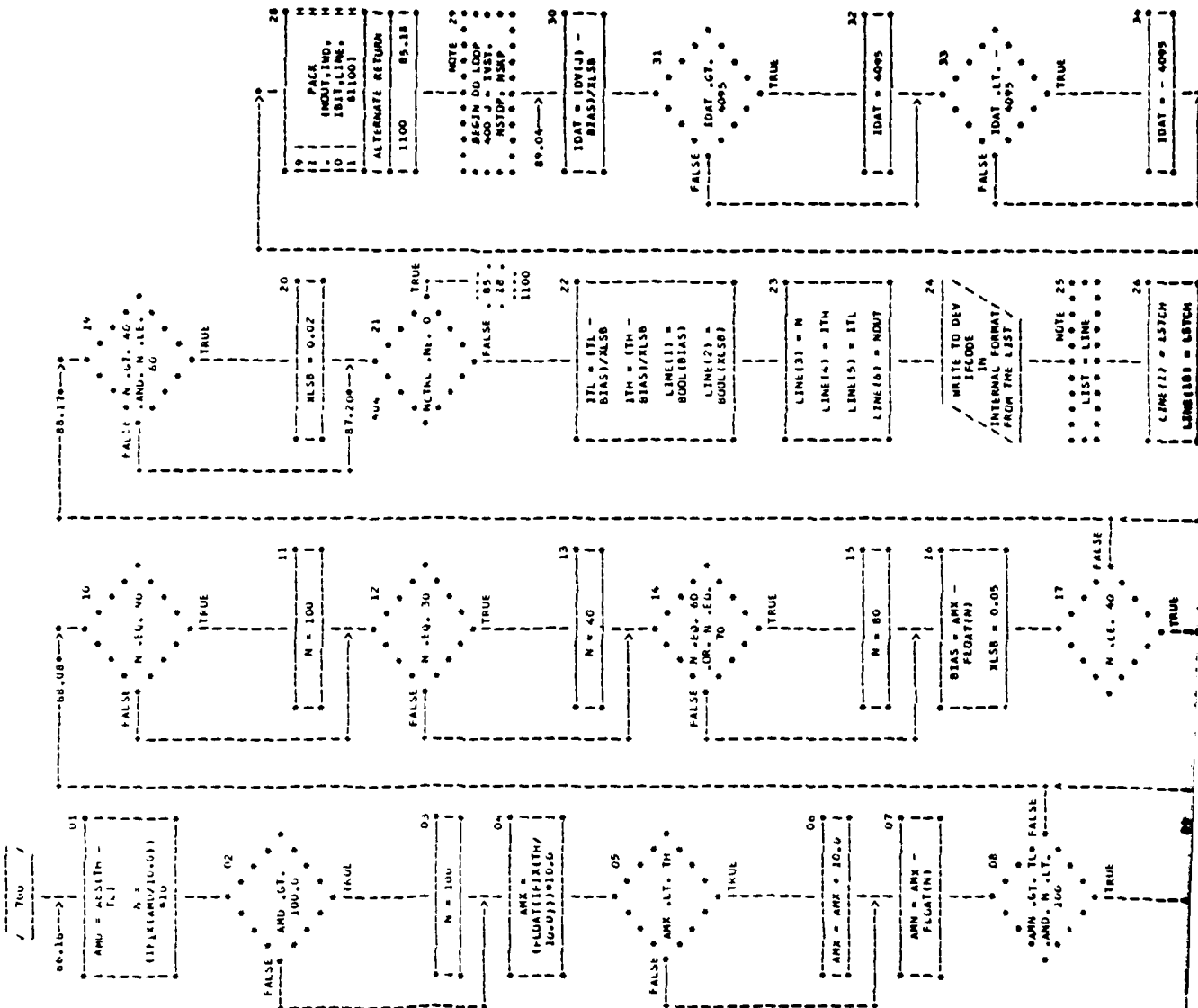


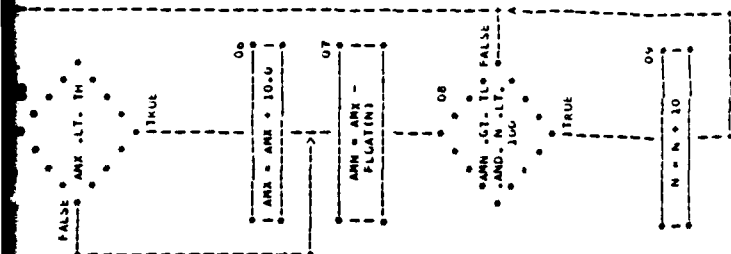
06/11/75

CHART TITLE - SUBROUTINE PELIST(UV)

AUTOLIST CHART SET - PMU/SCL KAUSIM

9-86

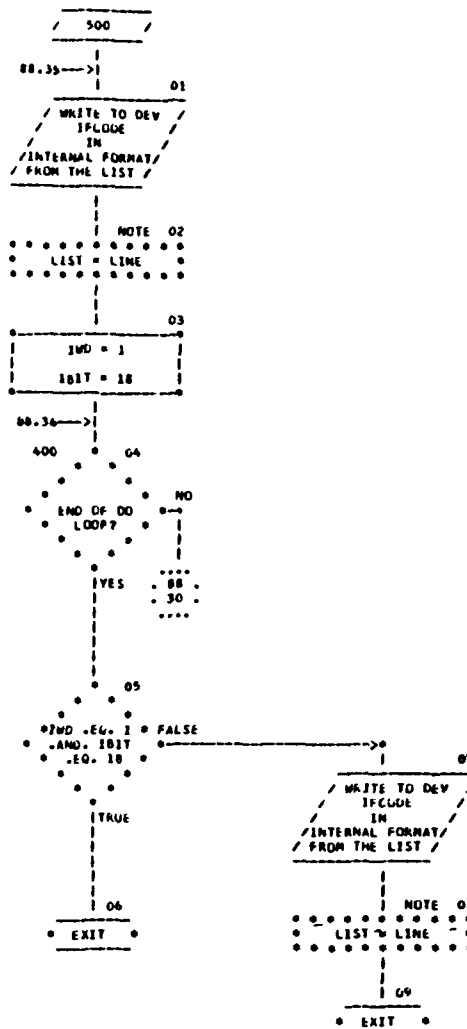




08/11/75

AUTOFLOW CHART SET - FHW/SCL RADSIM

CHART TITLE - SUBROUTINE 'TLIST10V'

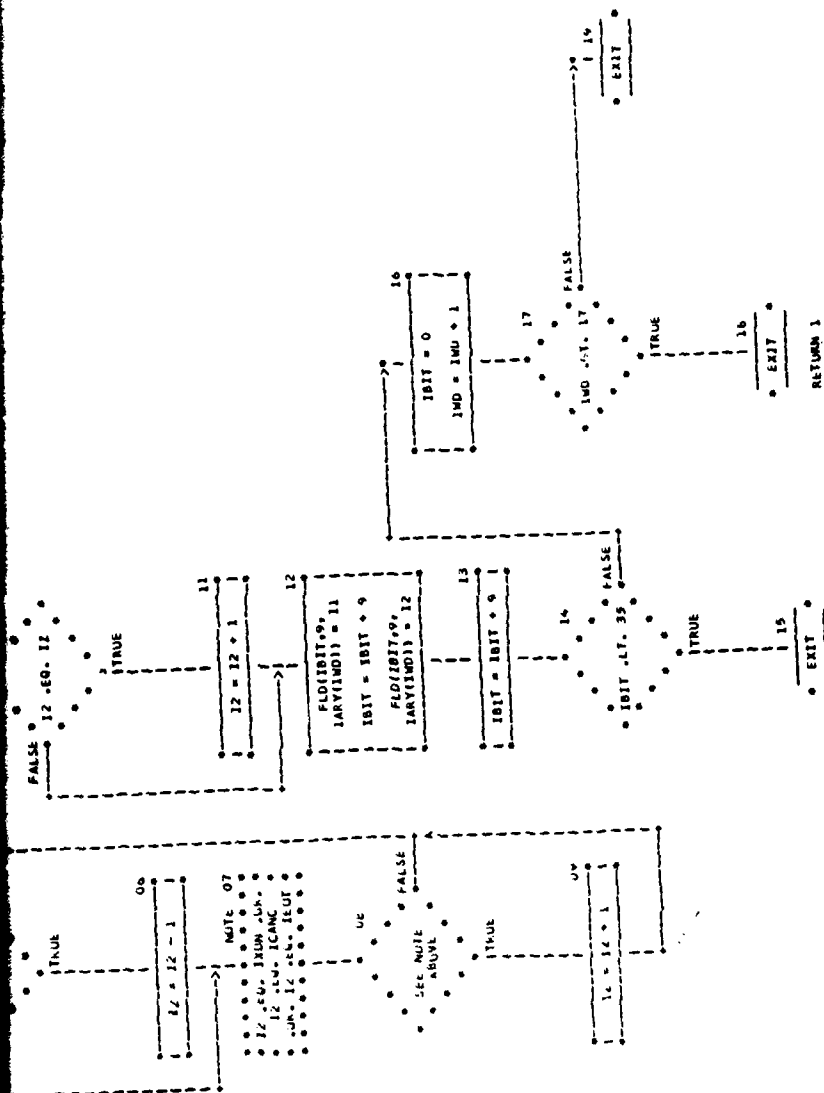


NON-PROCEDURAL STATEMENTS

```

COMMON/BLK1/ BK1(200),VIL(50),VDL(50),GLBL(50)
EQUIVALENCE ( BK1( 59), ST          ),( BK1( 60), RNG          ),
              ( BK1( 62), LF          ),( BK1( 63), NSKP         ),
              ( BK1( 64), NAUTO       ),( BK1( 65), TH           ),
              ( BK1( 66), TL          ),( BK1(113),IFCODE       )

DIMENSION DV(1),LINE(18)
DATA N193,N194,N195,N196,-3,-2,-1.0,XNINDB/1.0E-20/
DATA LSTCN/076172000000/
1201 FORMAT( ' PLOT NOT ATTEMPTED DUE TO CONDITION CODE =',I4)
801  FORMAT( ' THE PLOT DATA OUTPUT FILE IMPROPERLY DEFINED...',
          ' NO DATA TRANSFERRED' )
  
```

05/11/75

CHART TITLE -

AUTOFLOW CHART SET - FWD/SCL RADSIM

NON-PROCEDURAL STATEMENTS

DATA IRUT/0177/,IBIT7/0100/,IXUN/021/,ICANC/030/

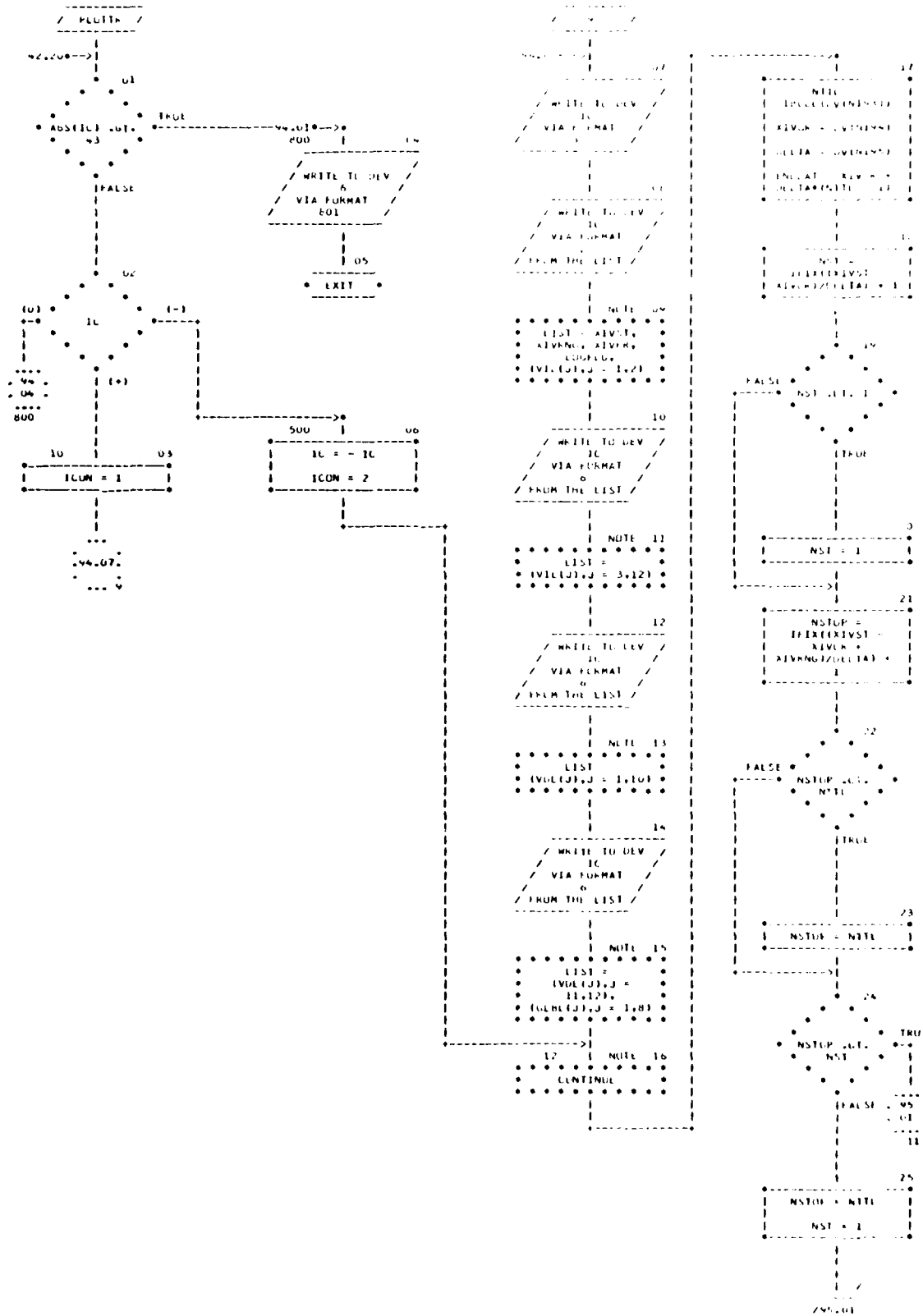
DATA IEOT/4/,IZ/0172/,ICONA/1/,ICUNC/5/

DIMENSION IARY(1)

08/11/75

ALGORITHM CHART FOR SUBROUTINE PLOTTING

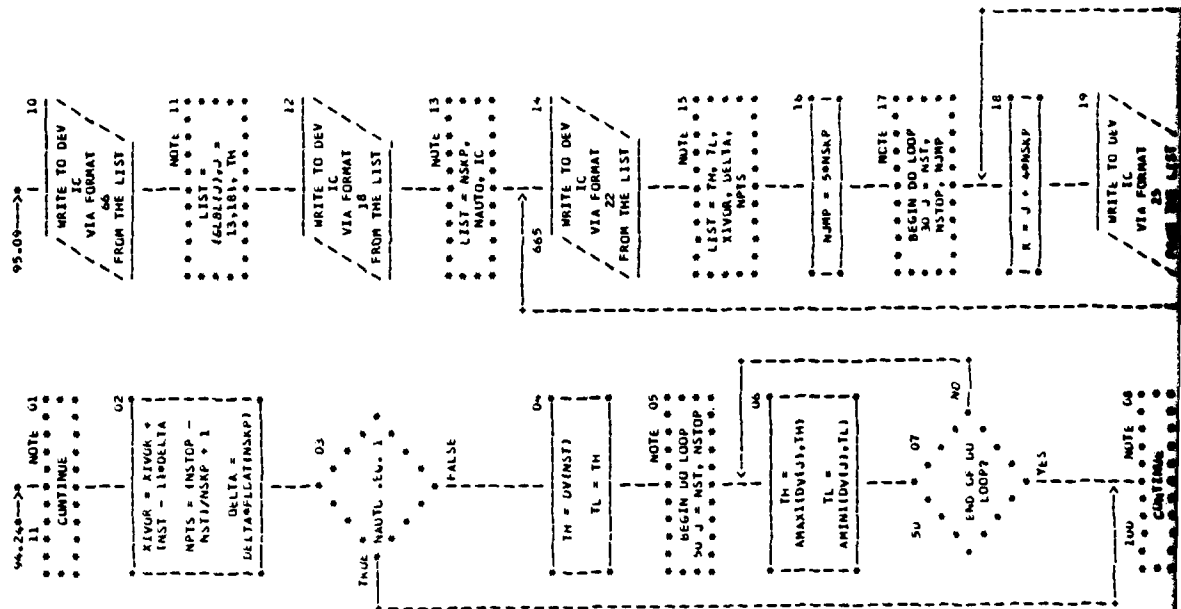
CHART TITLE = SUBROUTINE PLOTTING

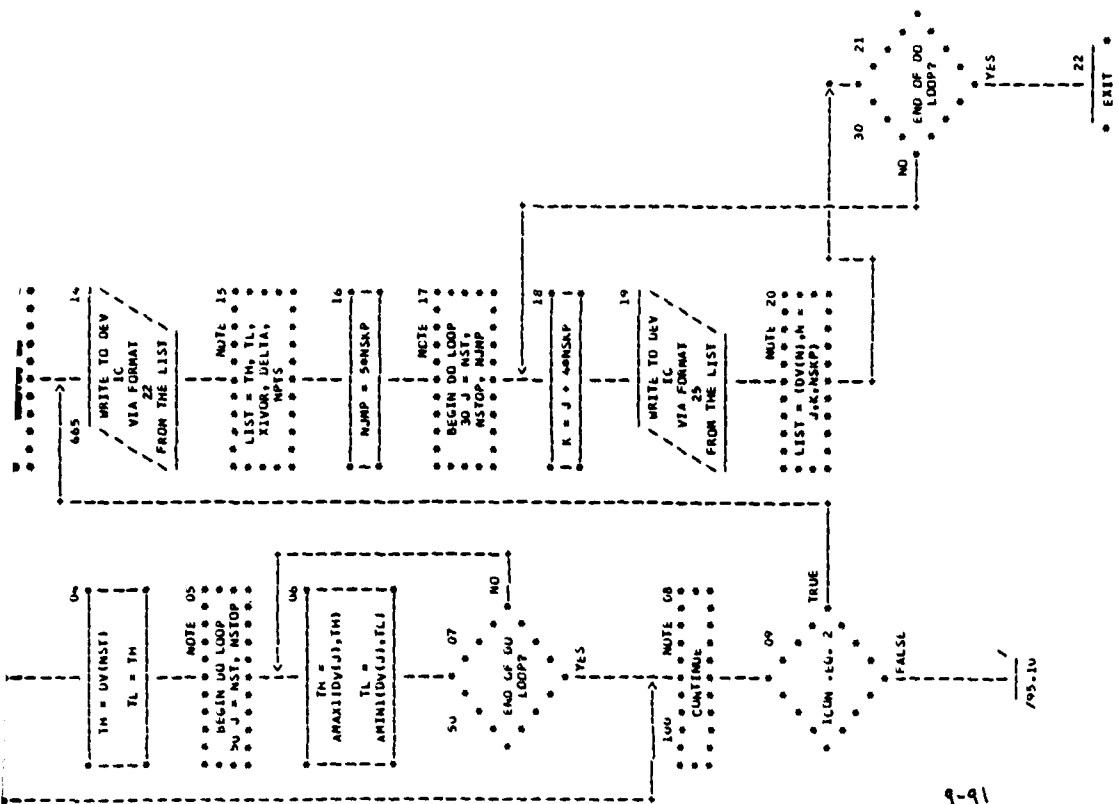


06/11/75

AUTOFLOW CHART SET - FMO/SEL RADSIM

CHART TITLE - SUBROUTINE PLOTTR(LUV)





08/11/75

AUTOFLOW CHART SET - FWC/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

```
COMMON/BLK1/ BK1(200),VIL(50),VDL(50),GLBL(50)
EQUIVALENCE ( BK1( 54), XIVST ),( BK1( 60), XIVRNG ),
( BK1( 61), XIVFR ),( BK1( 62), LOGFLG ),
( BK1( 63), NSKP ),( BK1( 64), NAUTO ),
( BK1( 65), TH ),( BK1( 66), TL ),
( BK1(113), IC )
```

DATA N193,N194,N195,N196/-3,-2,-1,0/

DIMENSION DV(1)

3 FORMAT(' ** PUNCH CARD DATA OUTPUT ')

2 FORMAT(1H ,3E13.5,I13,2A6)

0 FORMAT(5H ,10A6)

66 FORMAT(2H +,6A6,E15.6)

18 FORMAT(1H ,3I13)

22 FORMAT(1P4E13.5,I13)

25 FORMAT(1P5E13.5)

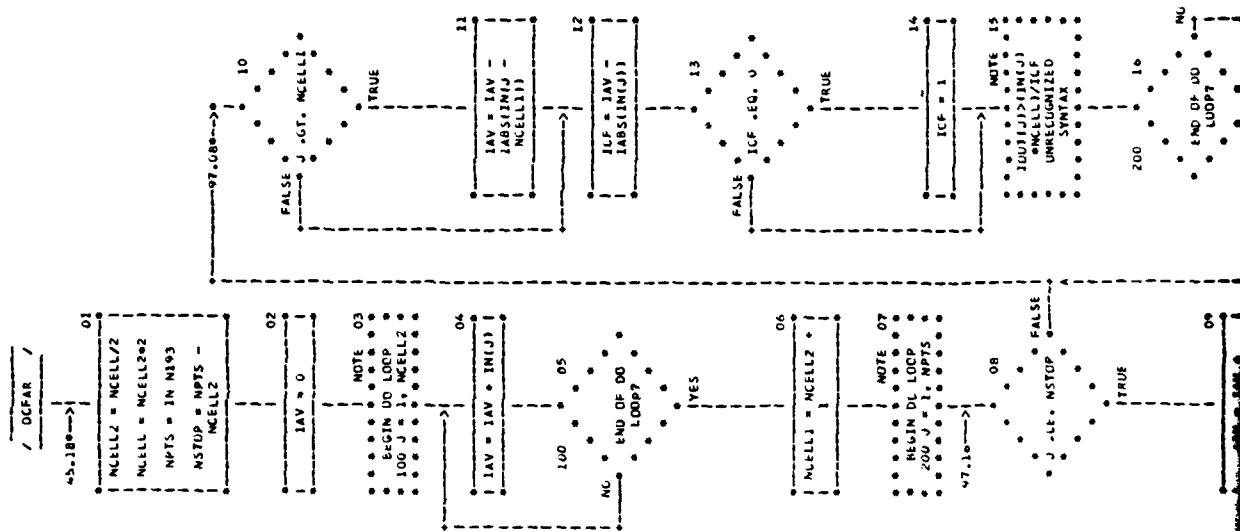
601 FORMAT(' PLOT DATA FILE IMPROPERLY DESIGNATED...NO DATA',

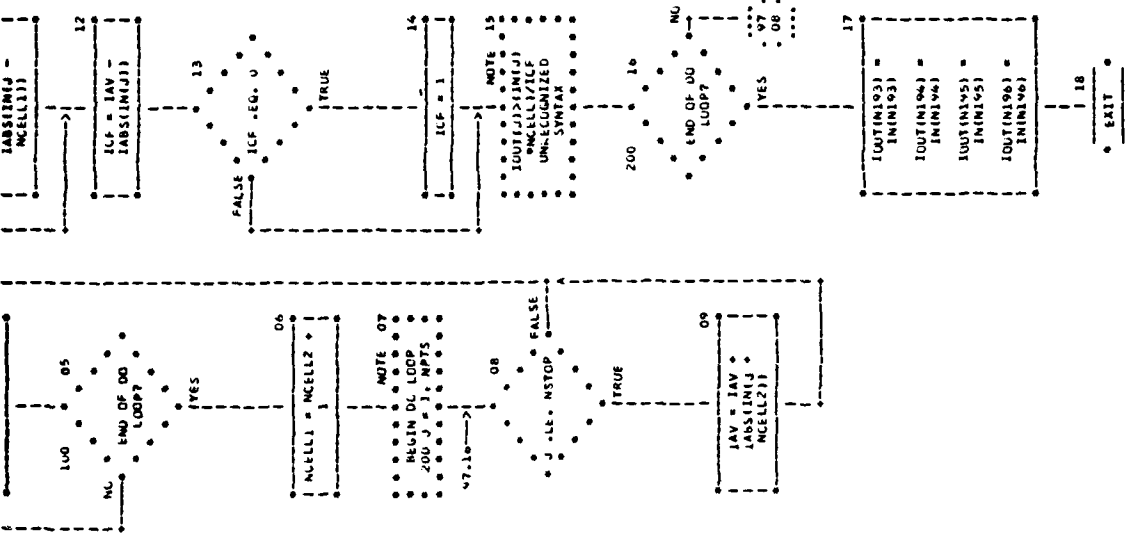
' TRANSFERED')

06/11/79

CHART TITLE - SUBROUTINE UCFAR(IN,IOUT)

AUTOFLOW CHART SET - FWD/SEL RADSH





AUTOFLOW CHART SET - FWD/SCL RADSIM

08/11/75

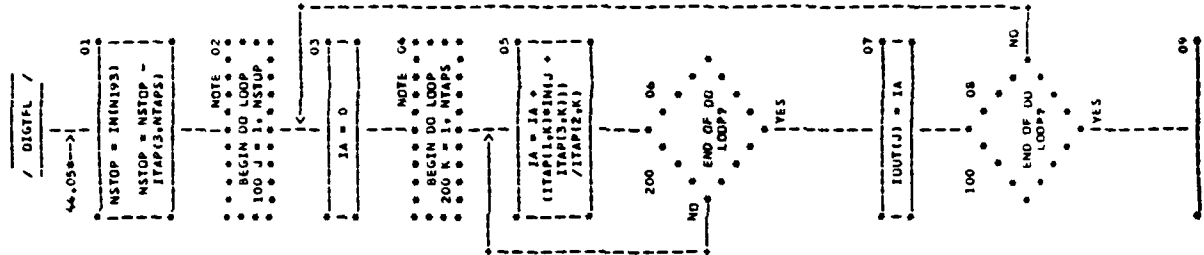
CHART TITLE - NON-PROCEDURAL STATEMENTS

COMMON/BLK1/ BK1(200)
DIMENSION IN(1),IOUT(1)
EQUIVALENCE (BK1(170), NCELL
DATA N193,N194,N195,N196/-3,-2,-1,0/

08/11/75

CHART TITLE - SUBROUTINE DIGTFL(IN,OUT)

AUTOFLOW CHART SET - FWD/SEL RADSIM

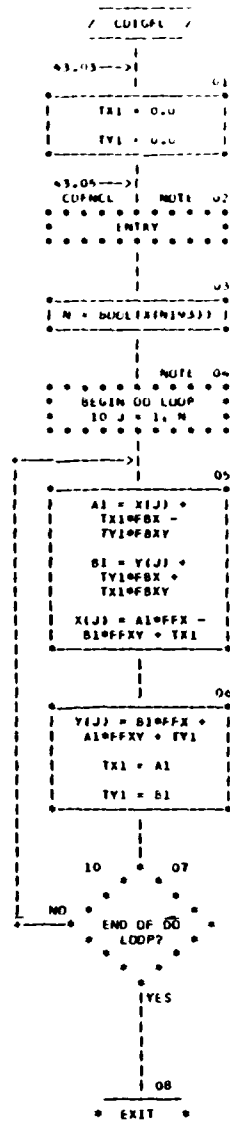




08/11/75

AUTOFLOW CHART SET - FWD/SLD RADSEN

CHART TITLE - SUBROUTINE CDTGFLX,Y



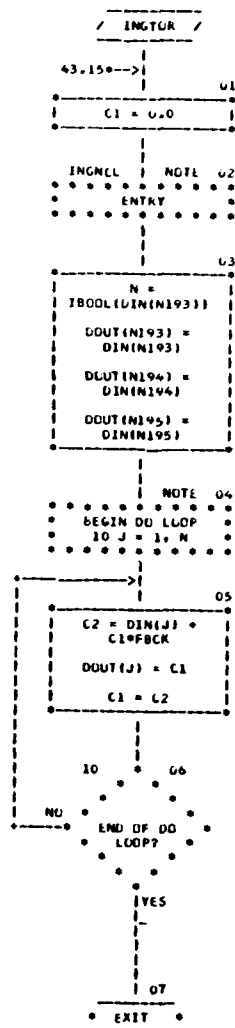
NON-PROCEDURAL STATEMENTS

COMMON/BLK1/BLK1(500)
 EQUIVALENCE (BK1(68), FFX), (BK1(69), FFX),
 (BK1(70), FBX), (BK1(71), FBXY)
 DATA N103/-3/
 DIMENSION X1(1),Y(1)

02/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE INGTUR(DIN,DOUT)



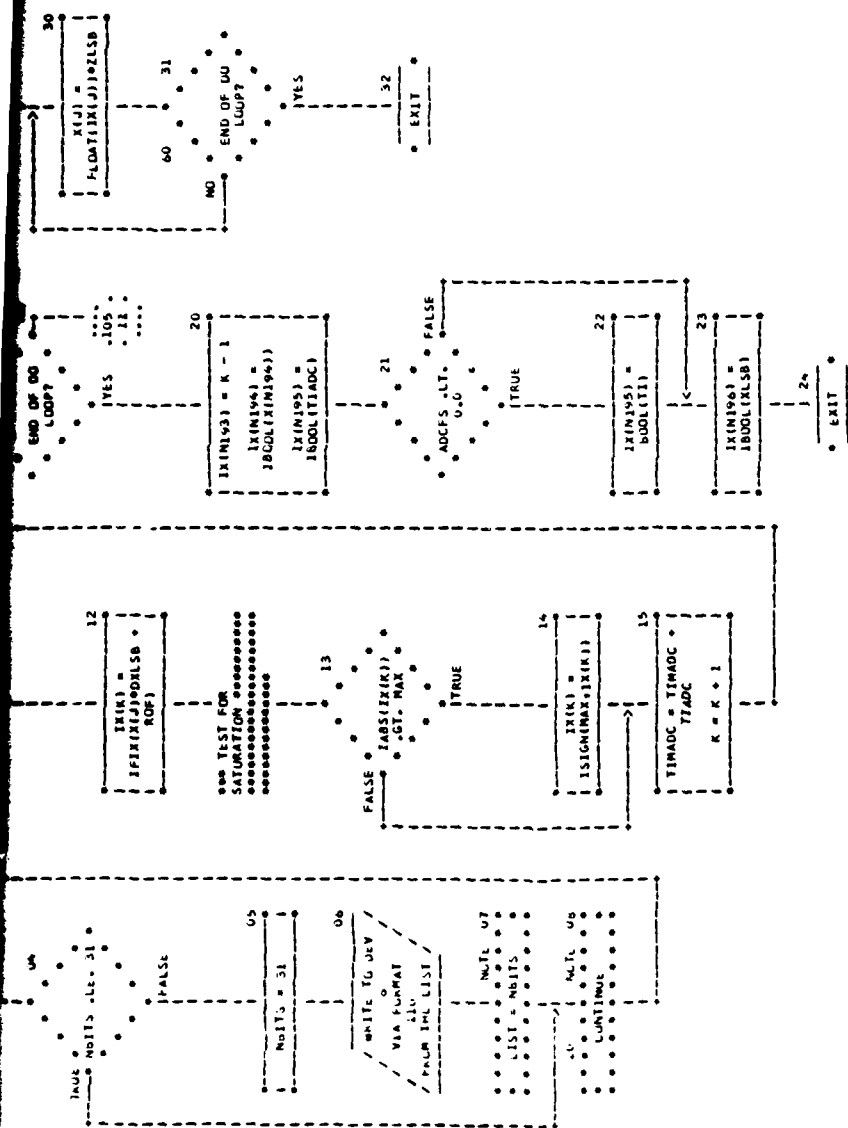
NON-PROCEDURAL STATEMENTS

COMMON/BLK1/BLK15001

DIMENSION DIN(1),DOUT(1)

EQUIVALENCE (BK1(21), IDMY J, (BK1(75), FBCK

DATA N193,N194,N195,N196/-3,-2,-1,0/



08/11/75

AUTOFLOW CHART SET - FWC/SCL RADSIM

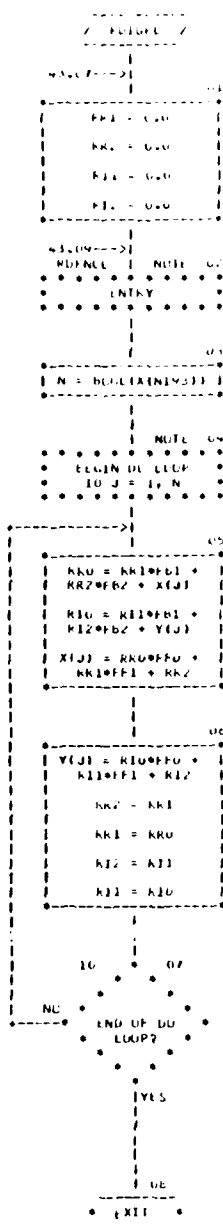
CHART TITLE - NCR-PROCEDURAL STATEMENTS

```
COMMON/BLK1/BLK1(500)
DIMENSION X(1),IX(1)
EQUIVALENCE (BLK1(103), XLSE ),
              (BLK1(104), NBITS ), (BLK1(105), IROFF )
,              (BLK1(144), ADLFS )
DATA N193,N194,N195,N196/-3,-2,-1,0/
110  FORMAT ( ' NBITS IS EXCESSIVE. THE VALUE OF NBITS HAS BEEN SET TO
              0,12 )
120  FORMAT(/// 49X,'* * * * A TO D CONVERTER * * * * / )
130  FORMAT(/// 49X,'* * * * D TO A CONVERTER * * * * / )
```


000000

000000 000000 000000 000000

000000 000000 000000 000000



NON-PROCEDURAL STATEMENTS

COMMON/COMMON/COMMON/COMMON

EQUIVALENCES (PRIORITY, PRIORITY, PRIORITY, PRIORITY, PRIORITY, PRIORITY, PRIORITY, PRIORITY)

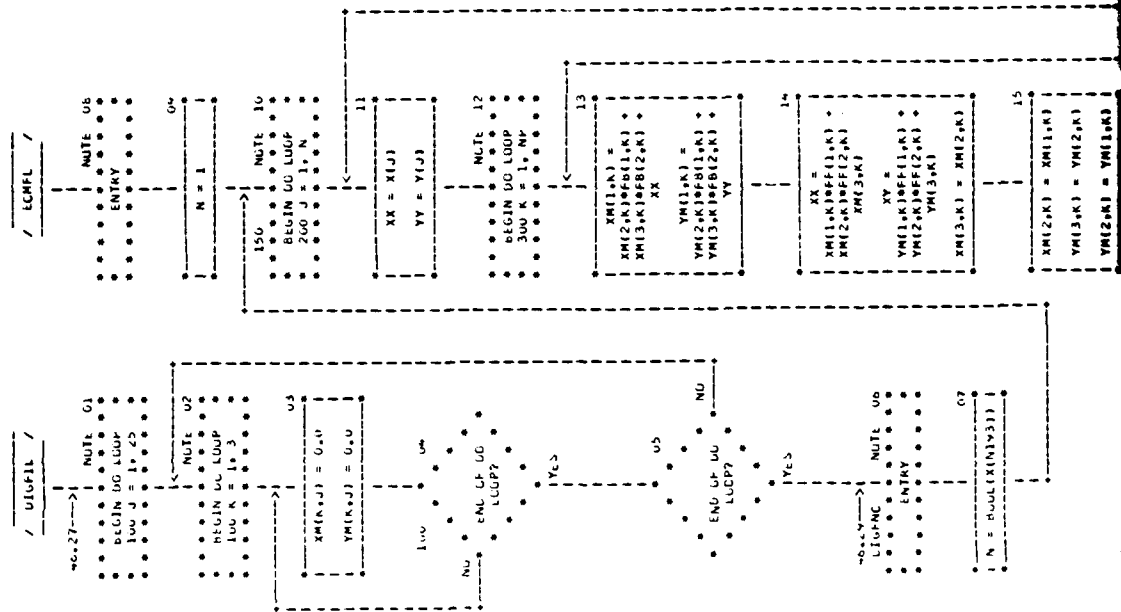
COMMON/COMMON/COMMON/COMMON

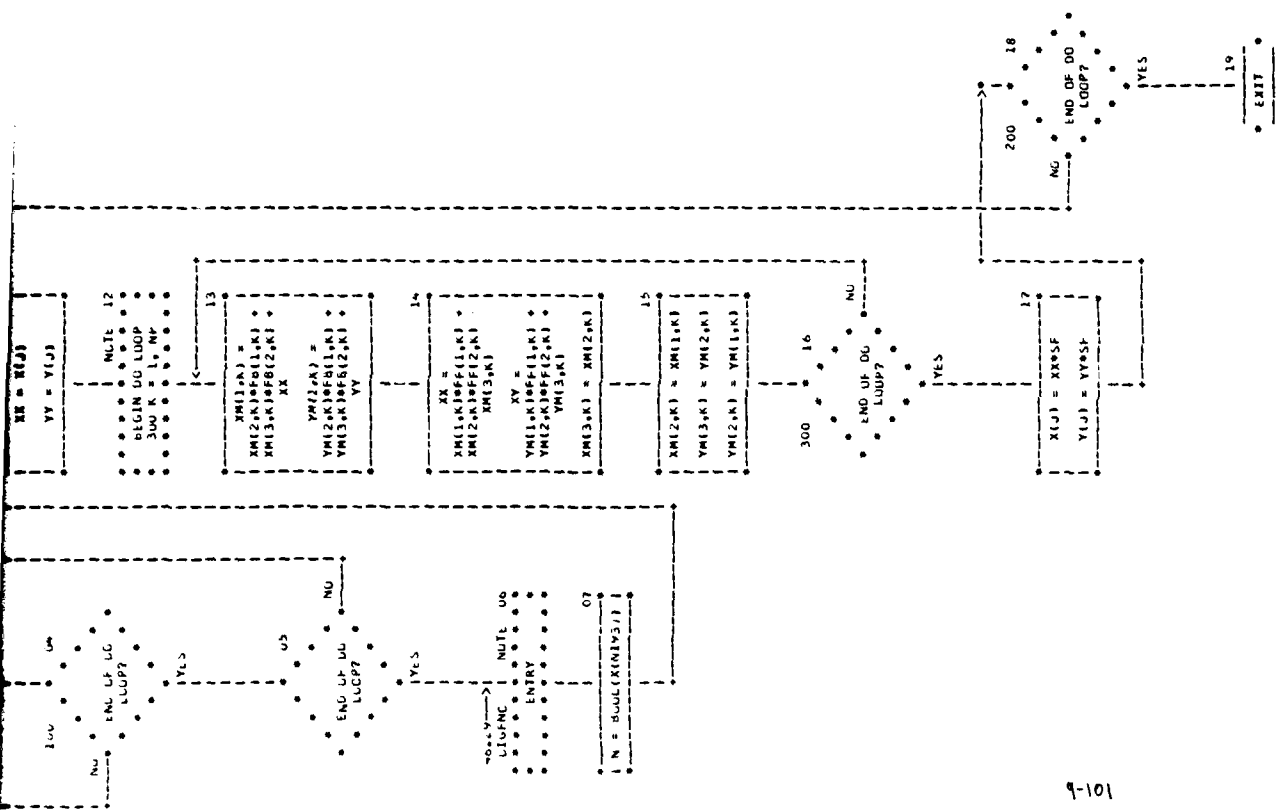
DATA N1111111

DIMENSION X1111111

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE DIGFIL(X,Y)





08/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

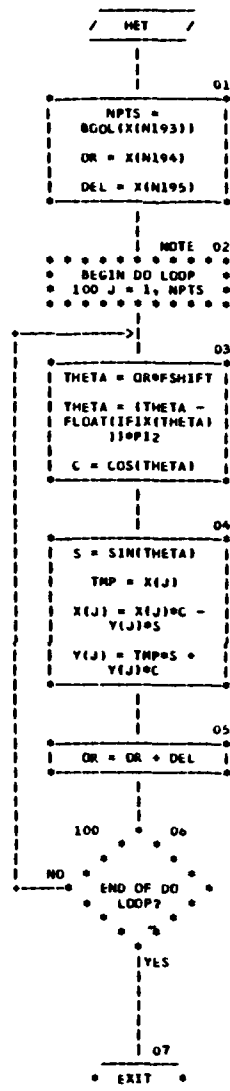
CHART TITLE - NON-PROCEDURAL STATEMENTS

```
CLMMON/BLK1/ BK1(200),FB(2,25),FF(2,25)
EQUIVALENCE (BK1(199), NP ) , (BK1( 74), SF )
DATA N193/-3/
DIMENSION X(1),Y(1),XM(3,25),YM(3,25)
```

06/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE MET(X,Y)

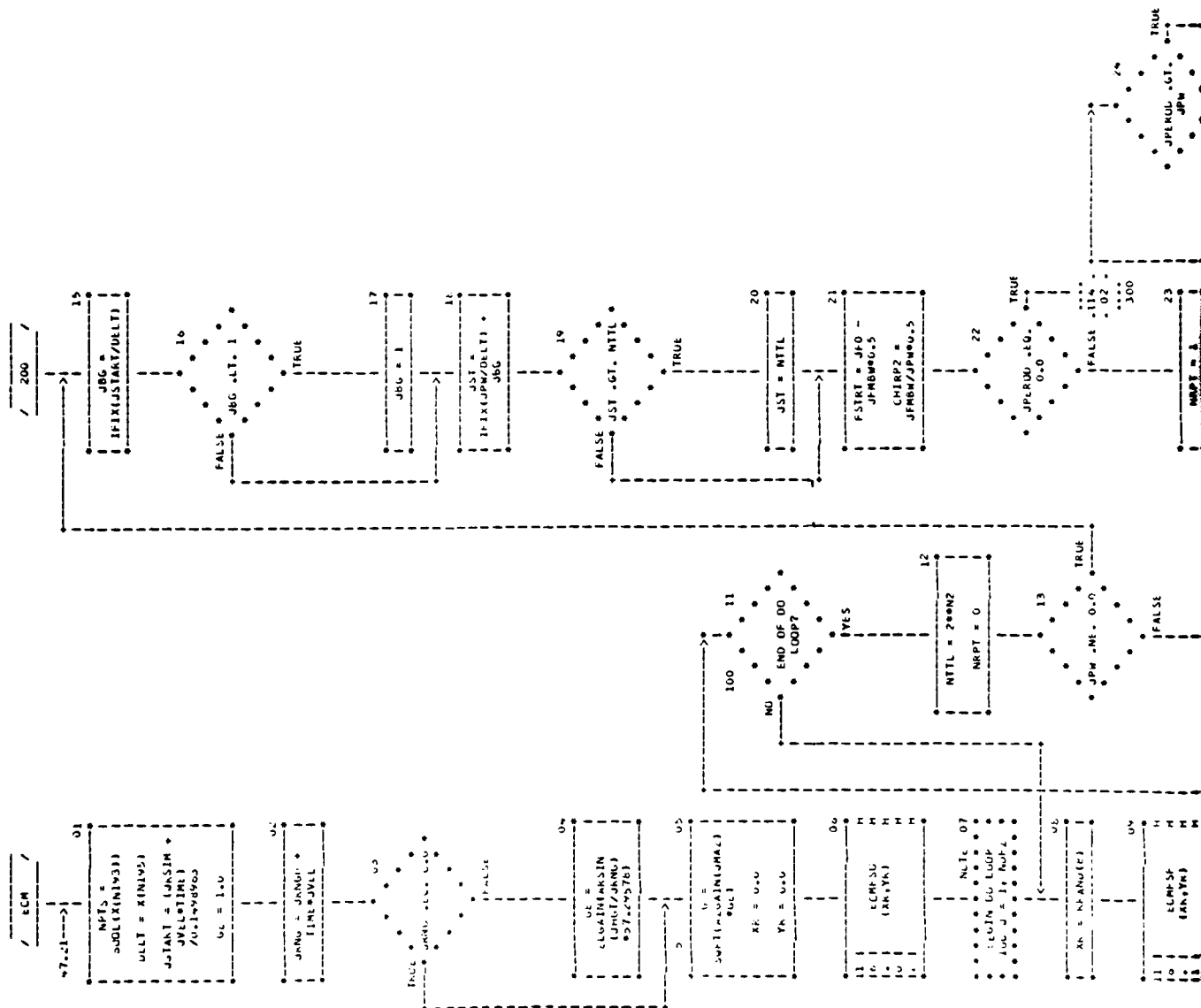


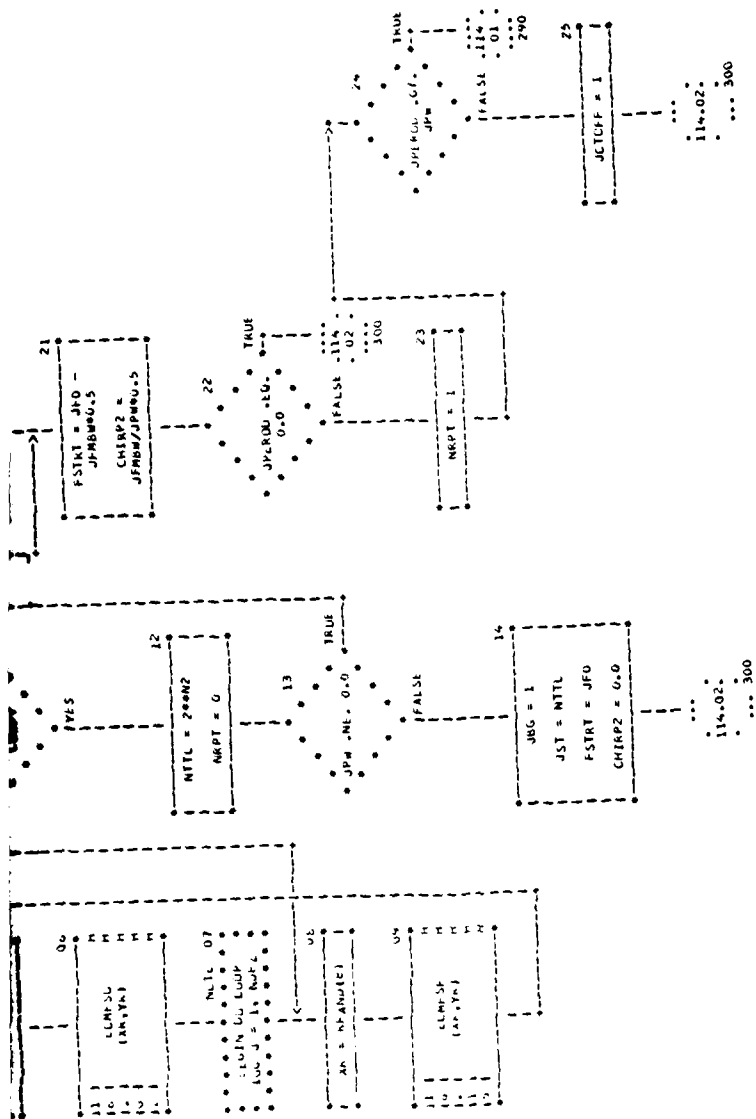
NON-PROCEDURAL STATEMENTS

DIMENSION X(1),Y(1)
COMMON /BLK1/ VAR(500)
EQUIVALENCE (VAR(15), FSHIFT)
DATA N193,N194,N195,N196 /-3,-2,-1, 0/,PI2/6.283185/

AUTOFLOW CHART SET - FMO/SCL RADSIM

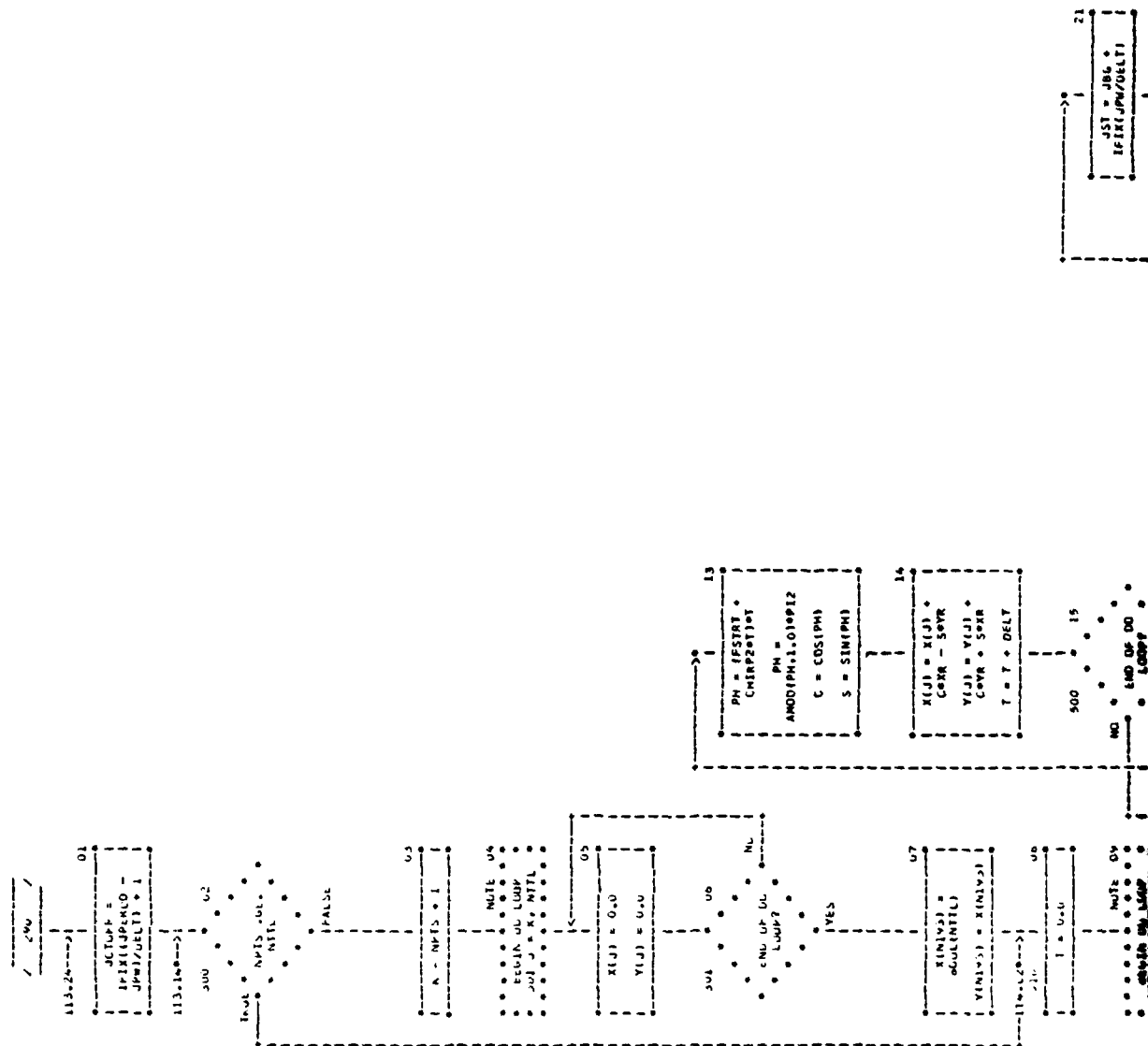
9-104





AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE FCN(X,Y)



00/11/75

AUTOFLOW CHART SET - FWO/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

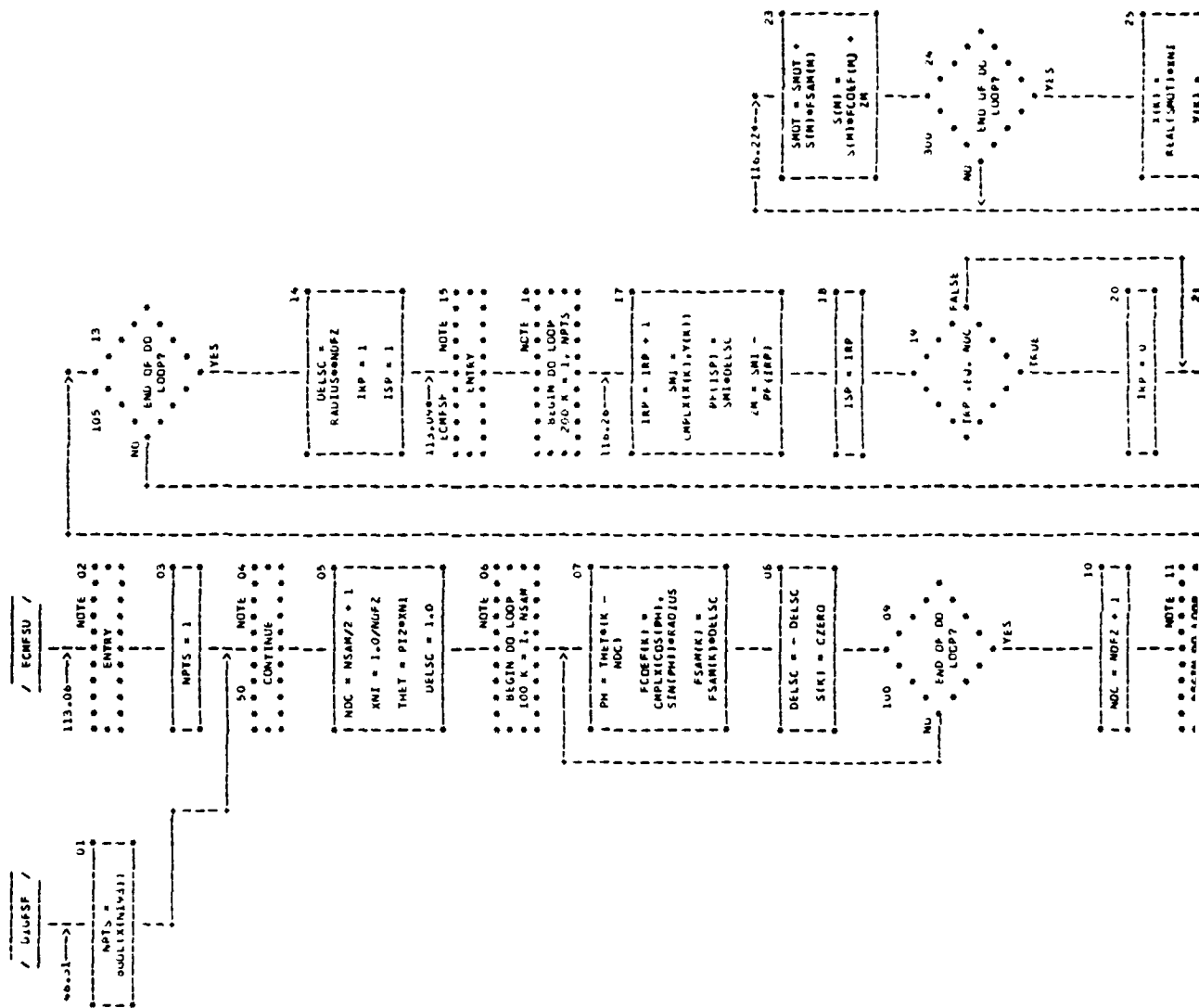
COMMON/BLK1/ BK1(500)
COMMON/BLKRND/ DMY(8),YR
EQUIVALENCE (BK1(16), TIME) , (BK1(171), JRNGO) ,
 (BK1(172), JRSIM) , (BK1(173), JMAZ) ,
 (BK1(174), JHGT) , (BK1(175), JERP) ,
 (BK1(176), JFMBW) , (BK1(177), JPW) ,
 (BK1(178), JFO) ,
 (BK1(156), JVEL) , (BK1(157), JPEROD)
 ,(BK1(1), N2) , (BK1(197), NDFZ)
DIMENSION X(1),Y(1)
DATA N193,N194,N195/-3,-2,-1,PI2/6.2831853/
REAL JRNG,JRSIM,JMAZ,JHGT,JERP,JFMBW,JPW,JFO
REAL JVEL,JPEROD,JSTART,JRNGO

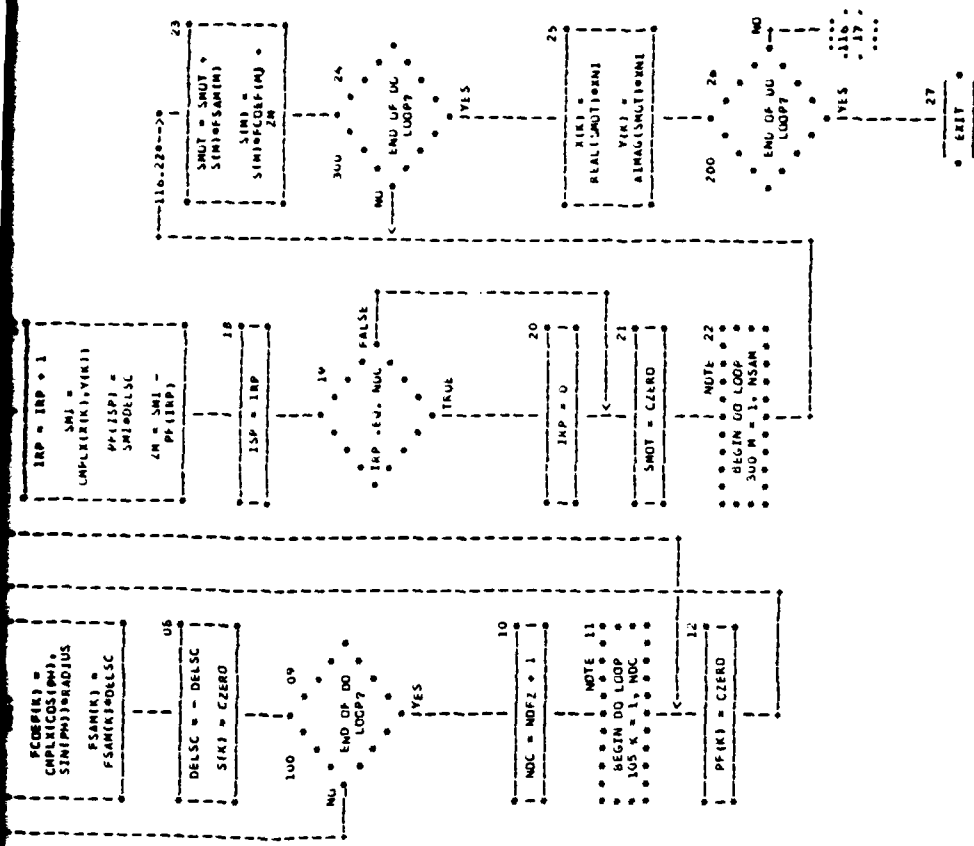
9-106

08/11/75

AUTOFLOW CHART SET - PWD/SCL RADSHM

CHART TITLE - SUBROUTINE DIGSFEX.V





02/11/75 AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE NON PRODUCTION STATEMENTS

COMMON/RUN1/ VAR(200),FSAM(100)
EQUIVALENCE (VAR(199), RADIUS), (VAR(198), NSAM),
(VAR(197), NOIZ)
COMPLEX FSAM,PF(256),FCURF(100),S(100)
COMPLEX SMI,SMUT,ZM,CZENC/(0.0,0.0)/
DIMENSION X(1),Y(1)
DATA W193/-3/.PL/6.2831853/

2-108

AUTOFLOW CHART SET - FNL/SLC RADSON

CHART TITLE - SUBROUTINE TARGET(A,Y)

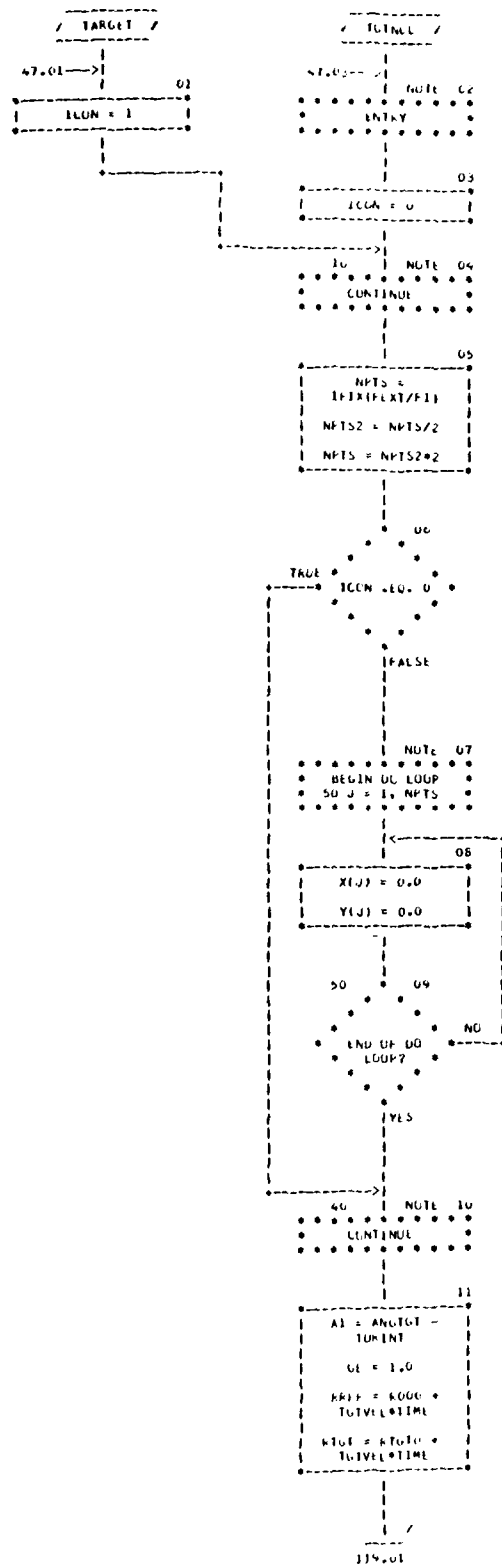
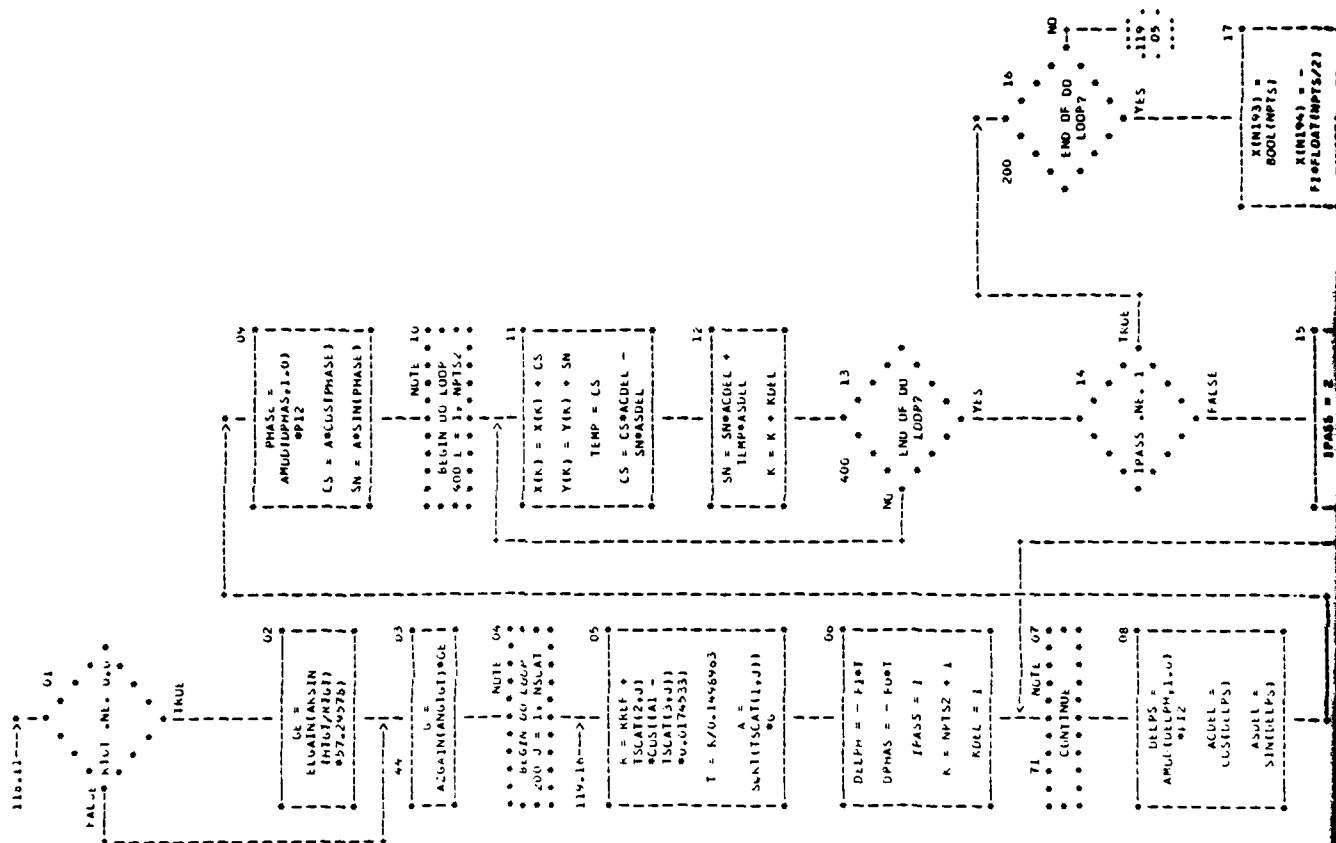


CHART TITLE - SUBROUTINE TARGET (T, Y)

9-110



05/11/75

AUTOFLOW CHART SET - FWD/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

CUMMLOW/BLK1/ BK1(200),TSCAT(3,100)
EQUIVALENCE (BK1(3), FU),(BK1(4), FEXT)
(BK1(11), FI)
(BK1(21), IDMY),(BK1(106), HTGT)
(BK1(107), RTGT),(BK1(108), ANGTGT)
(BK1(109), TCRINT),(BK1(110), RGOO)
(BK1(111), NSCAT),(BK1(112), TGTVEL)
, (BK1(16), TIME)

DIMENSION X(1) , Y(1)

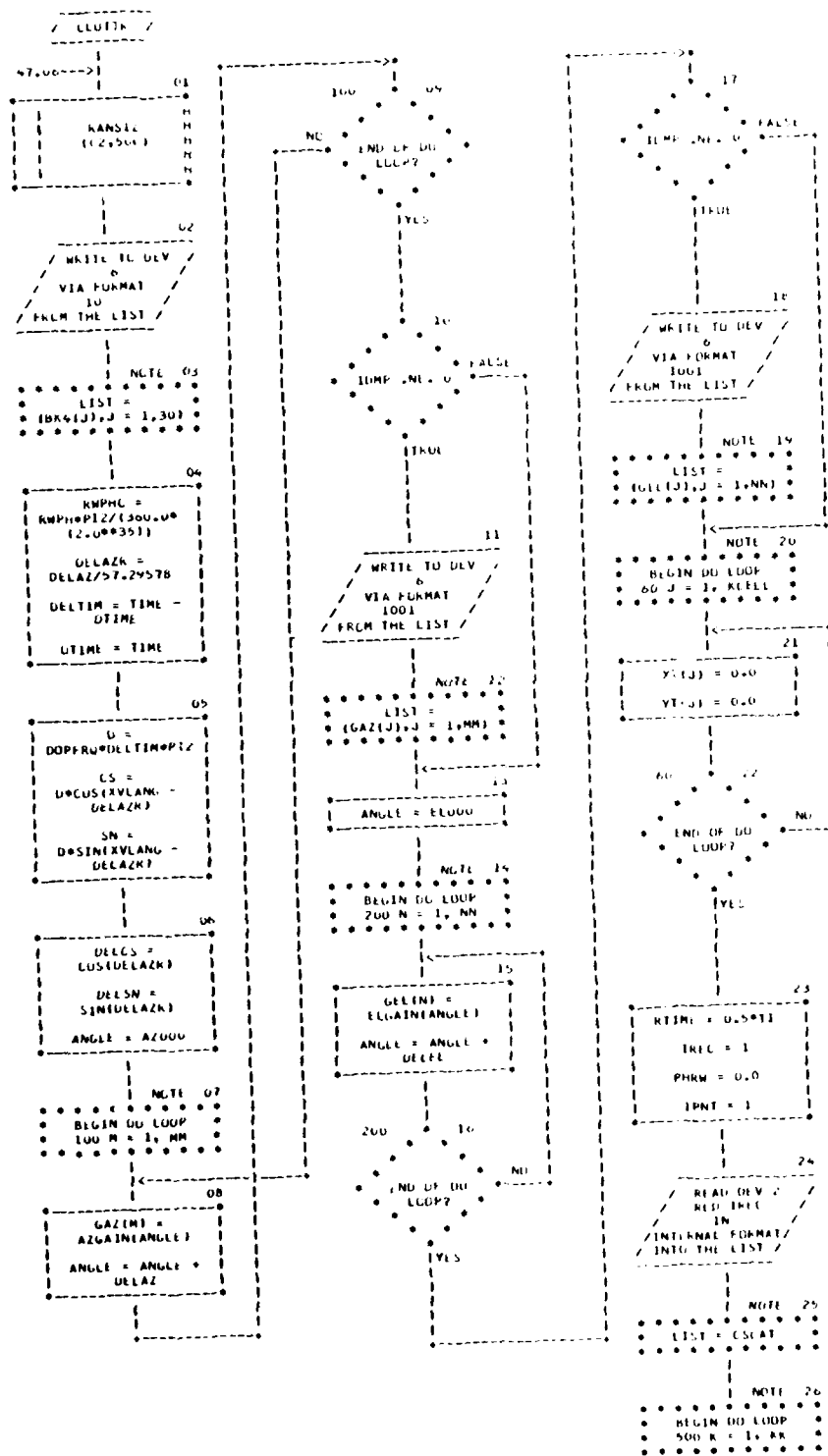
DATA N193,N194,N195,N196/-3,-2,-1,0/

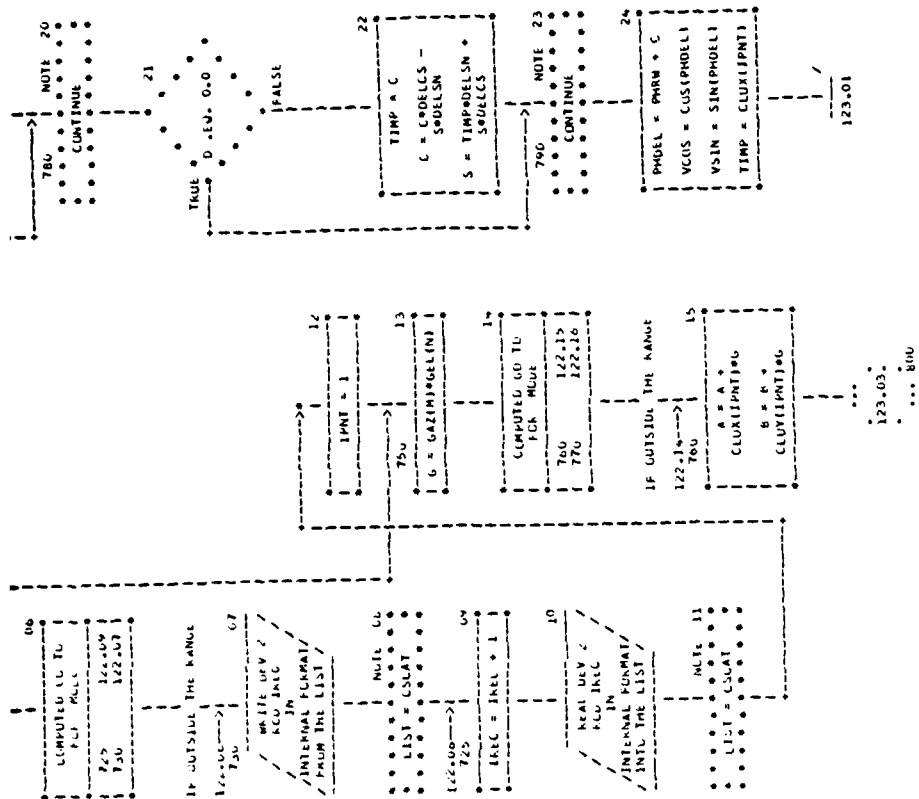
DATA P12/6.2531553/

06/11/75

ACUTELUM CHART DEF - FIVE DE - FIVE DE

CHART TITLE = SUBROUTINE CLOUTTER(X,Y,GZ,DEL,*)

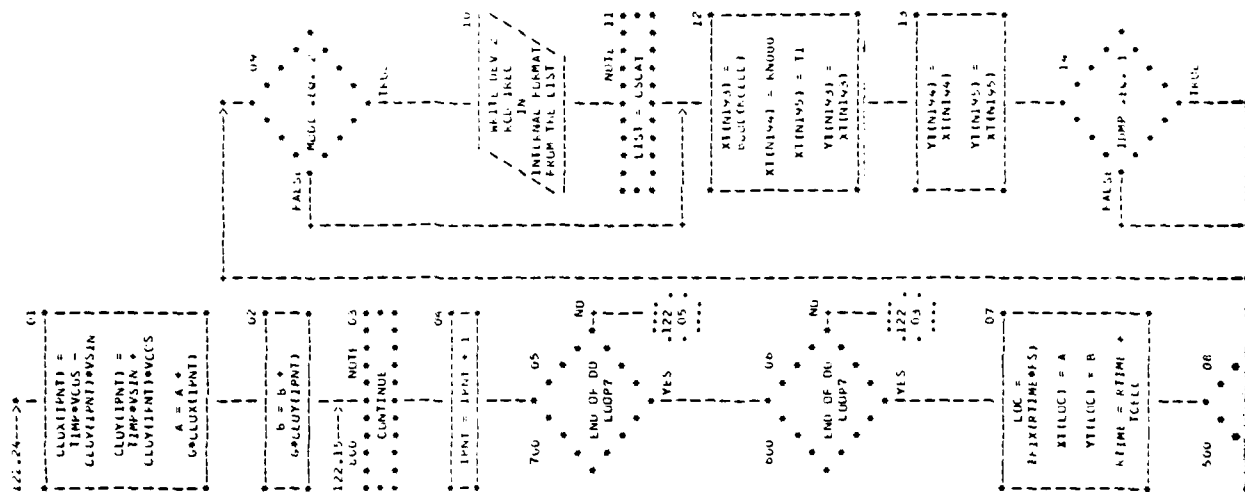




AUTUMN 1991 - PMJ/JCL - AUGUST 1991

TABLE 1 - SUMMARY OF TULINIAI, VI, 642, 643, 644, 645

9-114



02/11/75

AUTOFLOW CHART SET - FWD/SCL RAUSIM

CHART TITLE - NCR-PROCEDURAL STATEMENTS

```
COMMON/BLK1/ BK1(200)
COMMON/BLK330/BK4(30)

DIMENSION GAZ(1),GEL(1),CLUX(250),CLUY(250)
COMMON/BLKRND/ IIII(12),NRAND(129)
DIMENSION XT(1),YT(1),CSCAT(500),IRAND(128)
EQUIVALENCE (CLUX(1),CSCAT(1)) , (IRAND(1),NRAND(2))
EQUIVALENCE (CLUY(1),CSCAT(251))

EQUIVALENCE (BK1( 14), TCELL      ),(BK1( 21), IDMP      ),
(BK1( 12), TI      ),(BK1( 2), FS      ),
(BK4(  3), KMPH      ),
(BK4(  6), RNEXT      ),
(BK4(  7), KN000      ),(BK4(  9), AZ000      ),
(BK4( 10), MM      ),(BK4( 12), ELO00      ),
(BK4( 13), NN      ),(BK4( 14), KK      ),
(BK4( 16), MCDE      ),(BK4( 17), DELAZ      ),
(BK4( 18), DCELL      ),(BK4( 19), XVLANG      ),
(BK4( 20), ICFLAG      ),(BK4( 21), DOPFRQ      )
```

EQUIVALENCE (CLUX(1),CSCAT(1)), (IRAND(1),IRAND(2))

EQUIVALENCE (CLUY(1),CSCAT(251))

EQUIVALENCE (BK1(14), TCeLL) , (BK1(21), IOMP) ,
(BK1(12), TI) , (BK1(2), FS) ,
(BK4(3), KMPH) ,
(BK4(6), RNEXT) ,
(BK4(7), KNOOO) , (BK4(9), AZOOO) ,
(BK4(10), MM) , (BK4(12), EL000) ,
(BK4(13), NN) , (BK4(14), KK) ,
(BK4(16), MCODE) , (BK4(17), DELAZ) ,
(BK4(18), DLELL) , (BK4(19), XVLANG) ,
(BK4(20), ICFUG) , (BK4(21), DUPFRG) ,
(BK4(22), KCELL)

EQUIVALENCE (PK1(16), TIME)

DATA N193,N194,N195,N196/-3,-2,-1,0/

DATA (TIME,IMULT,P12/0.0,12207031.5,0.0251855/

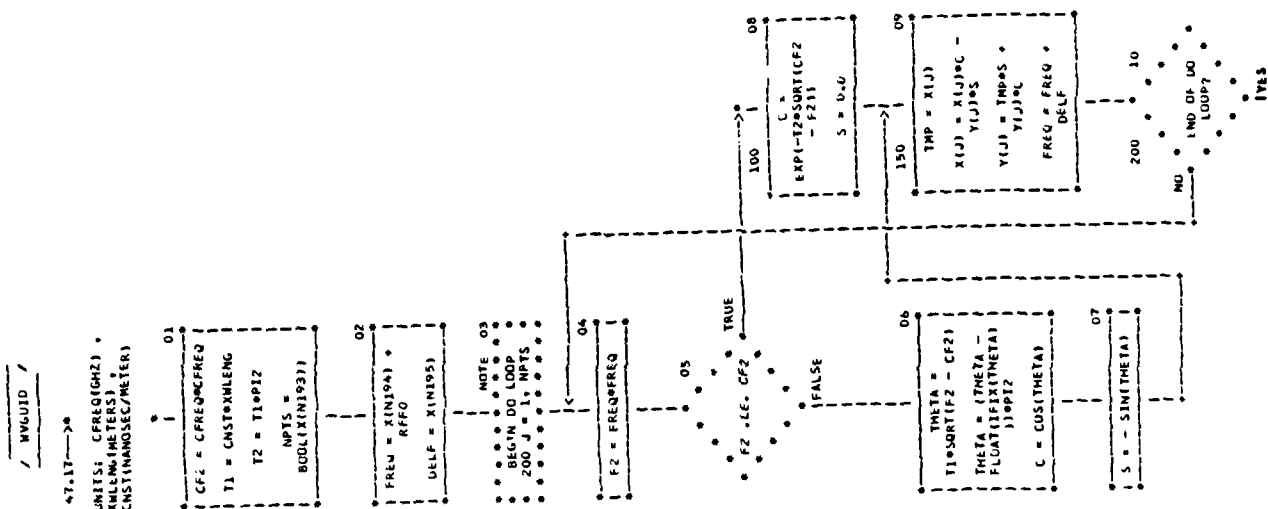
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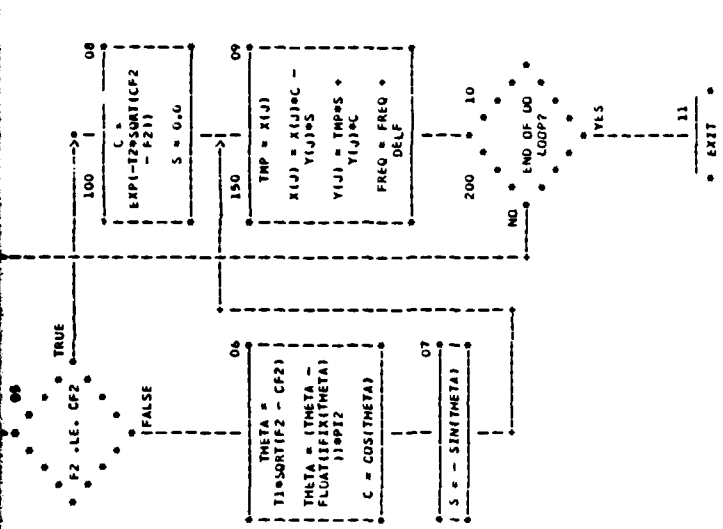
FORMAT(1F ,G120.5)

06/11/75

CHART TITLE - SUBROUTINE MVGUID(X,Y)

9-116





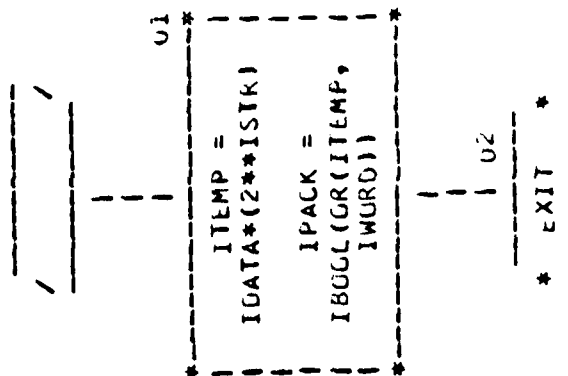
NON-PROCEDURAL STATEMENTS

COMMON/BLK1/ VAR(500)
 DIMENSION X(1),Y(1)
 EQUIVALENCE (VAR(146), CFREQ), (VAR(147), RULENG)
 EQUIVALENCE (VAR(3), RFF0)
 DATA M193,M194,M195,-3,-2,-1,-1,CONST/3.3333/P12/6.283185/

08/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

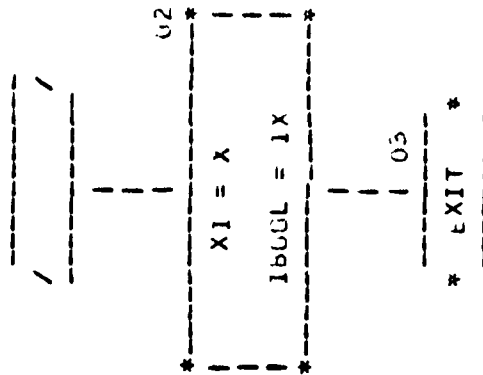
CHART TITLE - FUNCTION IPACK(ISTK, IDATA, IWGRD)



02/11/75

AUTOFLOW CHART SET - FWC/SCL KADSIM

CHART TITLE - FUNCTION 1BOUL(X)



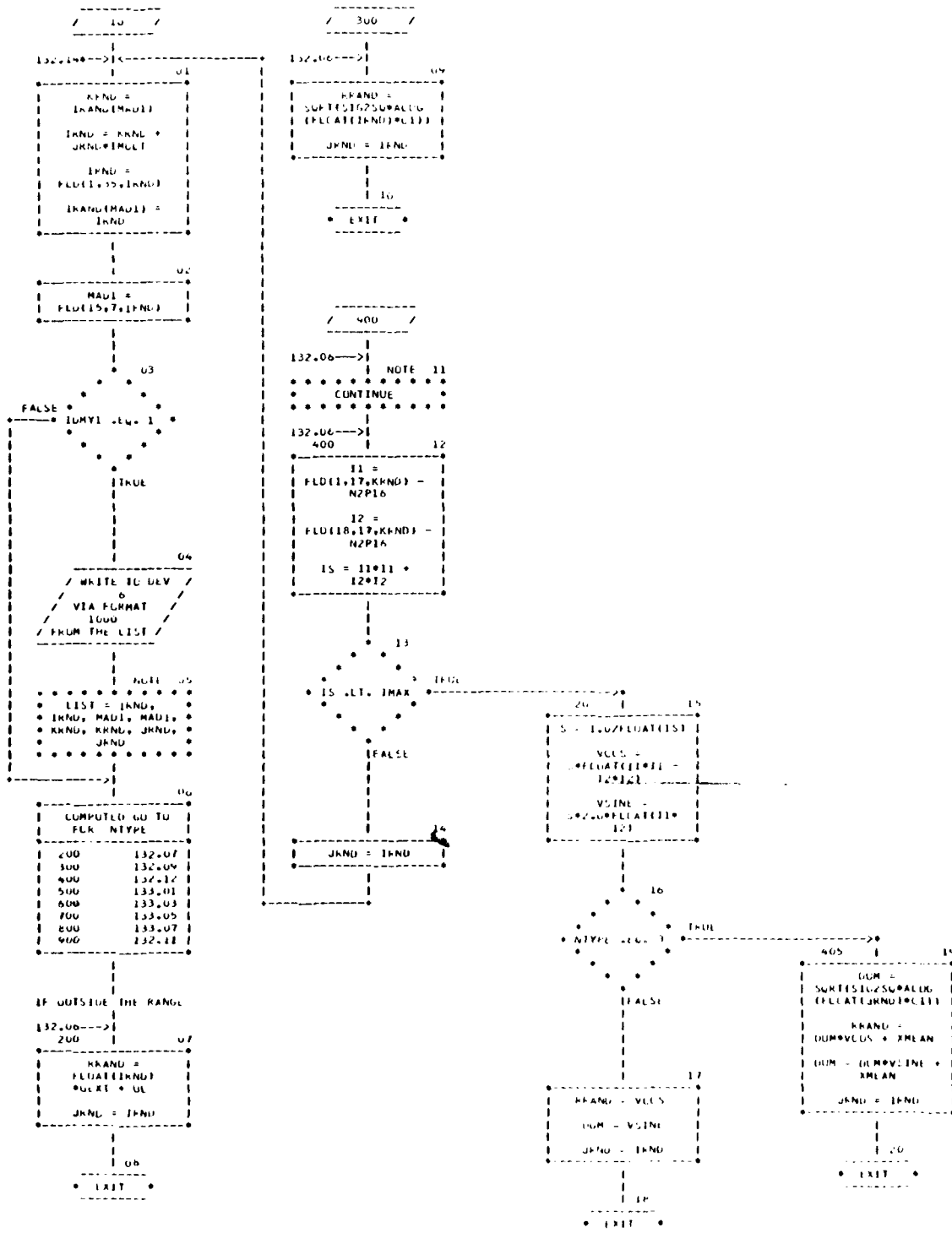
NON-PROCEDURAL STATEMENTS

EQUIVALENCE (IX, XI)

02/11/75

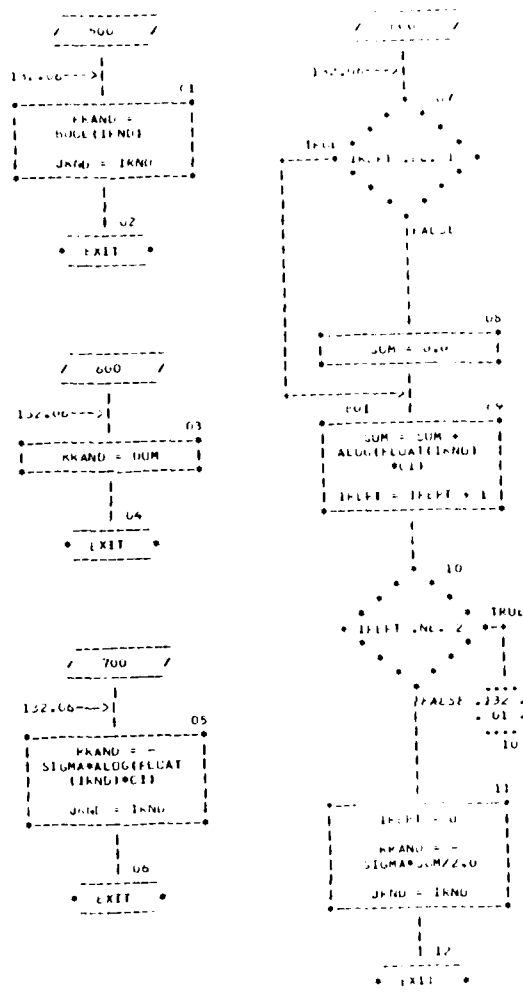
ACUTECOM (PART 1) - ENRZ (C) - 10/1/75

CHART TITLE - FUNCTION: KRAND(TYPE)



2011年12月15日 星期四

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DECLARATIONS

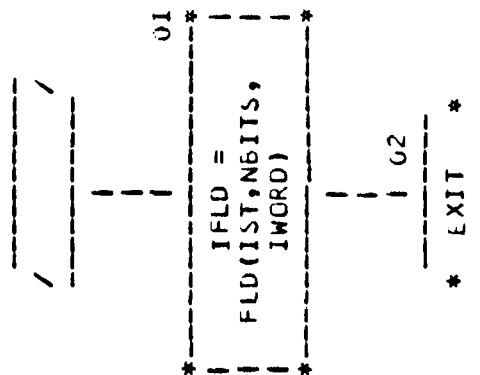
[illegible]

9-121

06/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - FUNCTION IFLO(IST,NBITS,IWORD)



Journal of Interpersonal Violence 28(12)

$\mathbf{P} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$

[illegible][illegible]

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11/26/2010 10:54 AM

$$11^{1/2} \cdot 7x^2 + 68x + 11, 11^{1/2} \cdot 19x + 19, 11^{1/2} \cdot 11x + 11, 11^{1/2} \cdot 11x + 11x + 11x,$$

18/12/2023 12:15:00 PM 18/12/2023 12:15:00 PM

Figure 1. Schematic diagram of the experimental design. The subjects were divided into two groups: the control group and the experimental group. The control group received a standard diet and water, while the experimental group received a diet supplemented with 0.5% of the test substance. The subjects were monitored for 14 days, and the results were analyzed using a two-way ANOVA.

[illegible]

Authors' disclosures of potential conflicts of interest and author contributions are found at the end of this article.

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1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

1. *Journal of the American Medical Association*, 1997; 277: 1039-1043.

[illegible]

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26306072836-29317683872-07115083063-10337711503-

[illegible]
$$241, 246, 6, 10, 6, -1, 1, 3, \dots, 2000, 2, -1, 1, 1, 1, 1, 1, 2, 1, 1, \dots, 13, 1, 1, 1, 1,$$

doi:10.1016/j.jmb.2006.05.001

[illegible]

01478644-9: 01478644-9: 01478644-9: 01478644-9: 01478644-9

3. *Conclusions*—The results of this study indicate that the use of a single, low-dose, short-acting benzodiazepine, such as lorazepam, is an effective and safe method of sedation for the conscious, cooperative, and nonventilated patient with severe head injury. The use of a single, low-dose, short-acting benzodiazepine, such as lorazepam, is an effective and safe method of sedation for the conscious, cooperative, and nonventilated patient with severe head injury.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

[illegible]

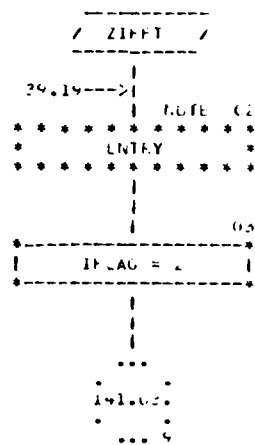
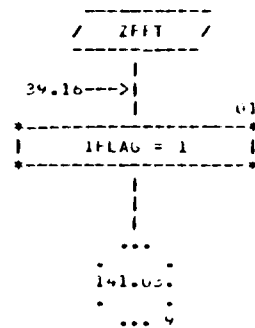
01414018114 (04/10/10) 201 2014-10-10 10:10:11

9-124

02/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - LOCKOUTING ZFFT(X,Y)

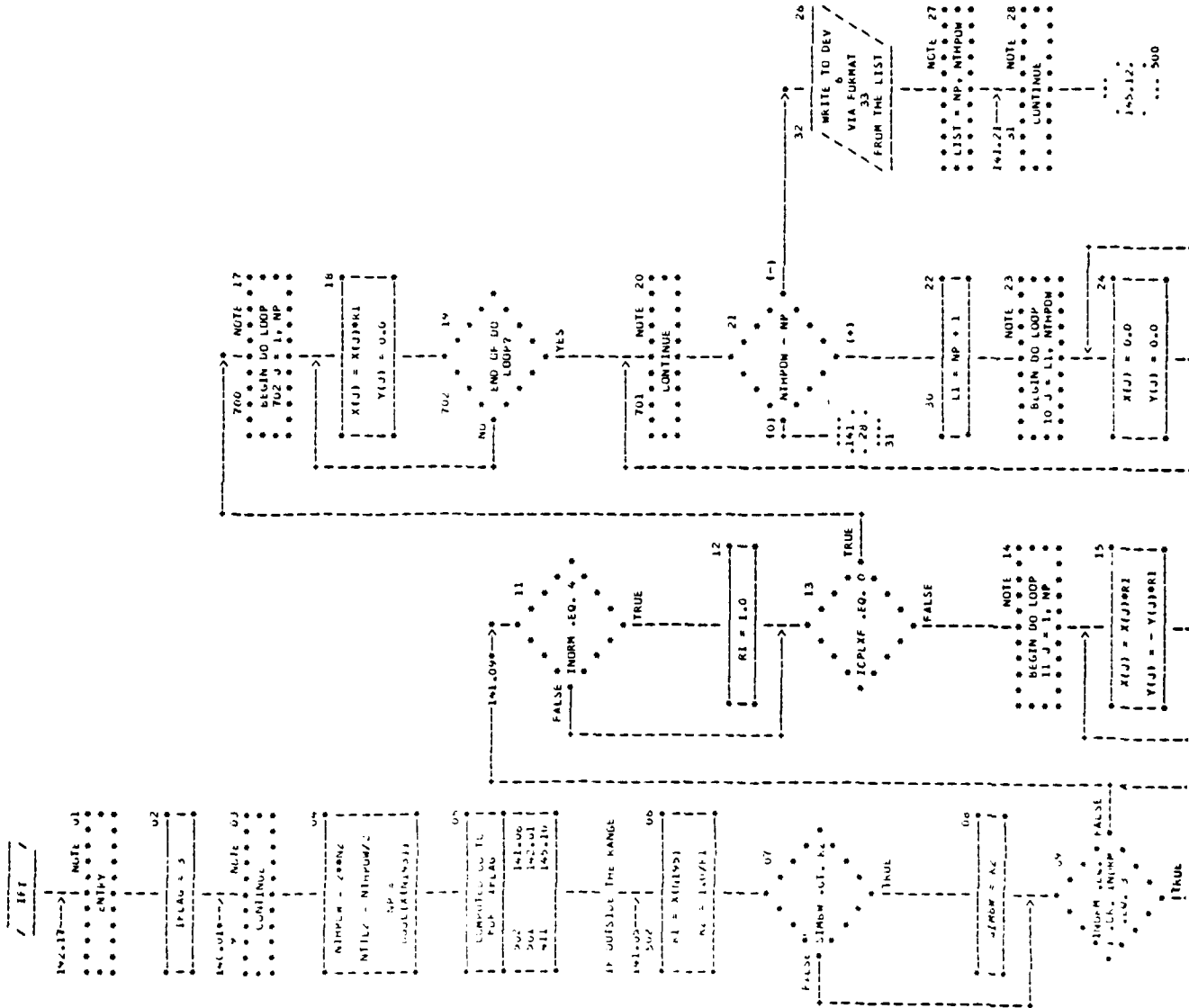


09/11/75

AUTURUM CHART SET - PMO/SLL KADSIM

CHART TITLE - SUBROUTINE ZPTTX(V)

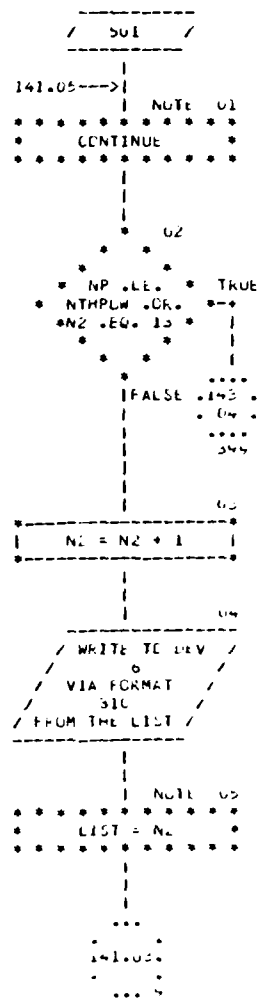
9-126



06/11/75

AUTOFLOW CHART SET - FWD/SCL KADSIM

CHART TITLE - SUBROUTINE ZFFT(X,Y)

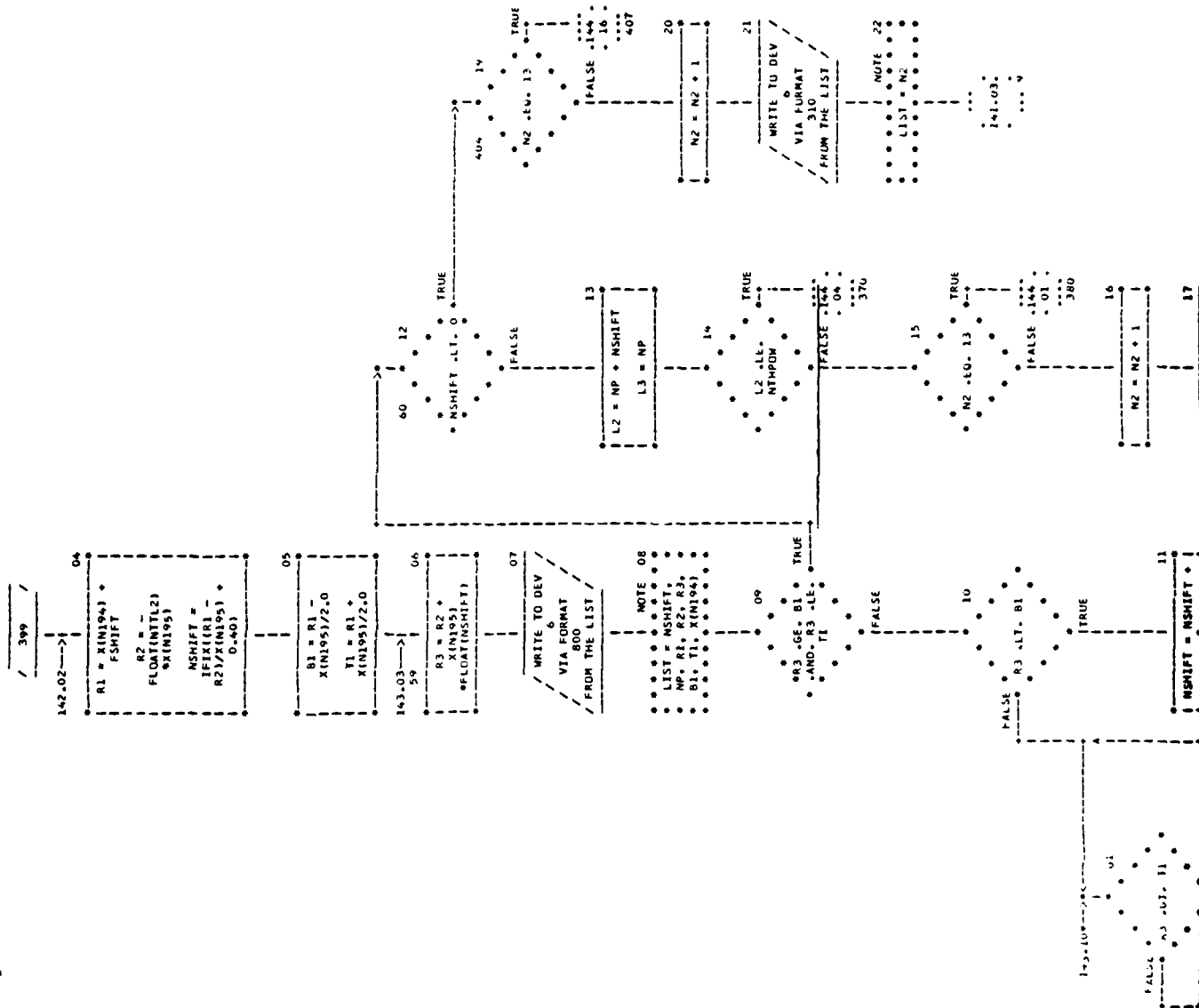


08/11/75

CHART TITLE - SUBROUTINE 2PFTIR.V1

9-128

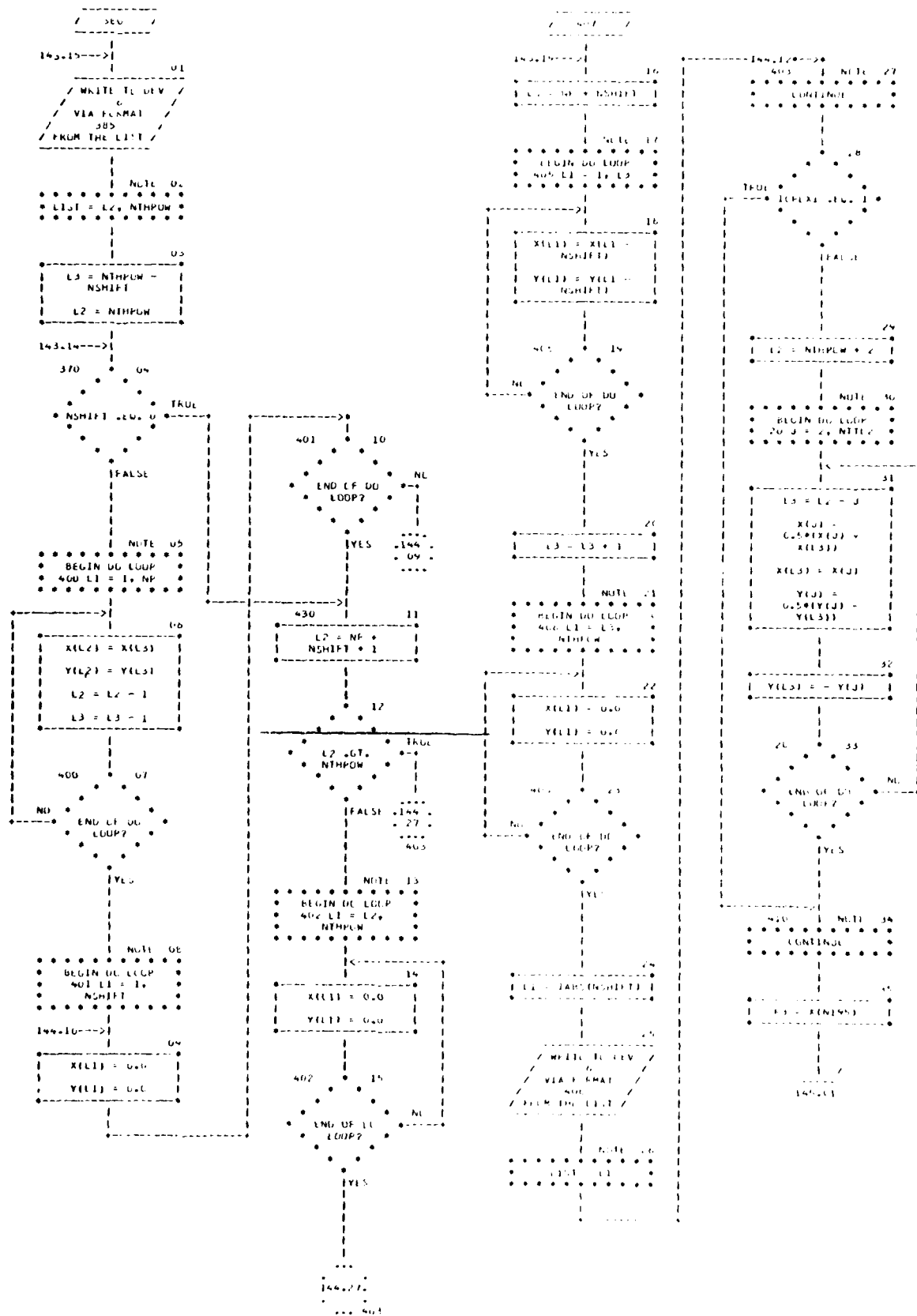
AUTOFLOW CHART SET - FWD/SCL RAOSIM



08/11/75

ACUTELW CHART 11 - PROZELC PART 11

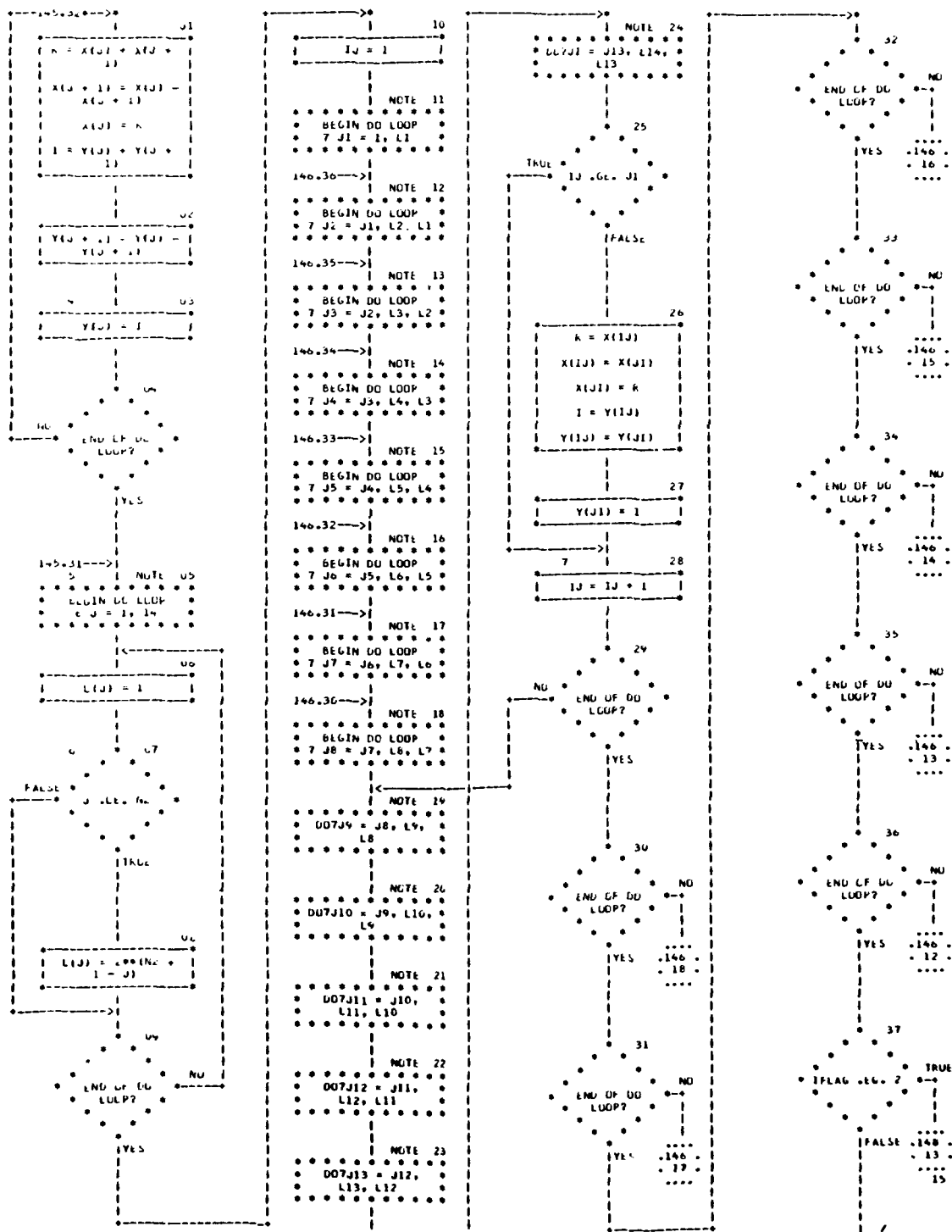
CHART TITLE - SUBROUTINE ZFFLAGS



9-130

AUTOFLOW CHART SET - FWG/SCL RADSIM

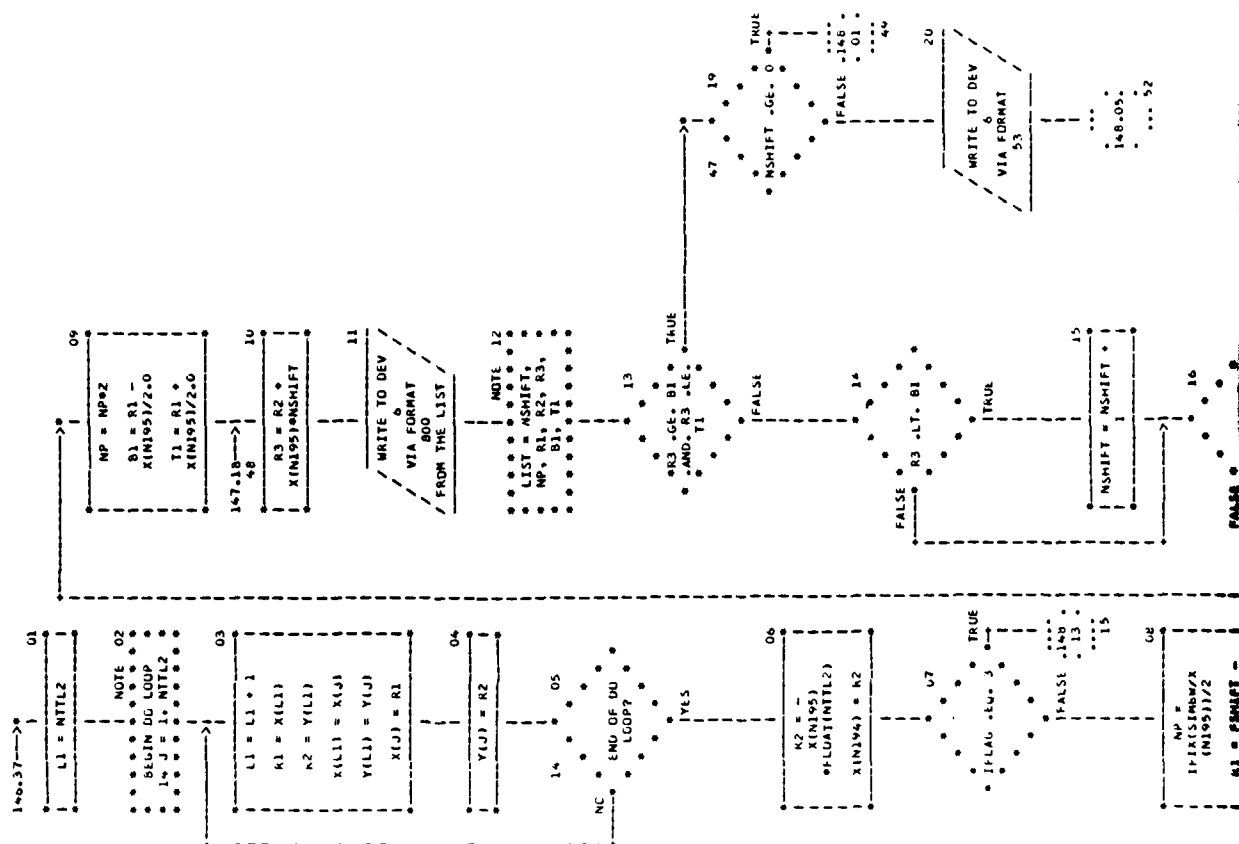
CMAKT 11100 - SUBROUTINE ZFFT(X,Y)

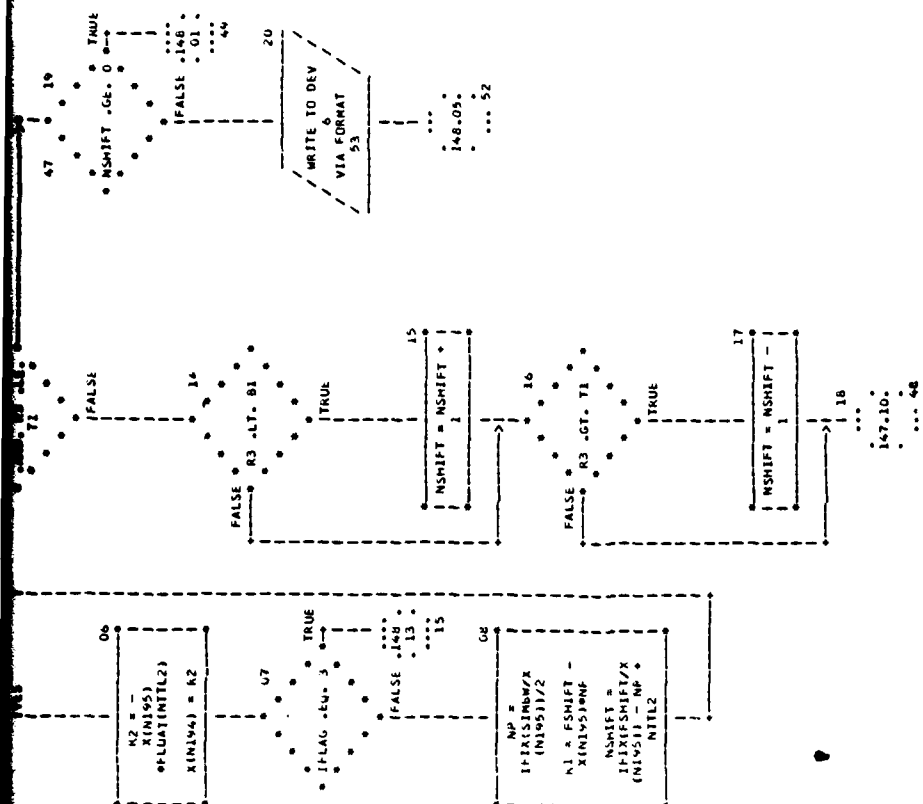


AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE ZFFT(X,Y)

9-132

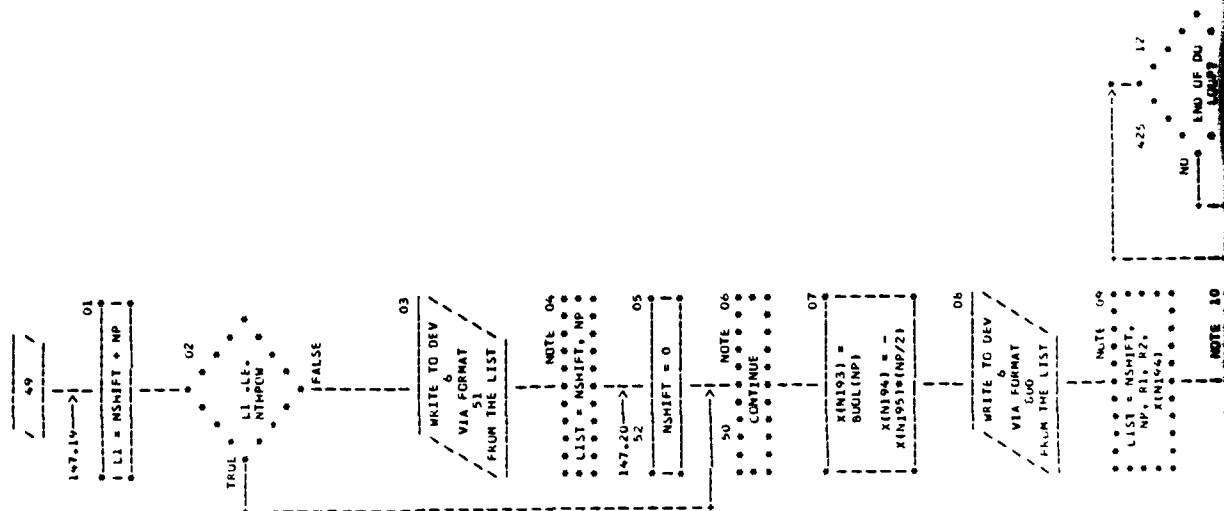


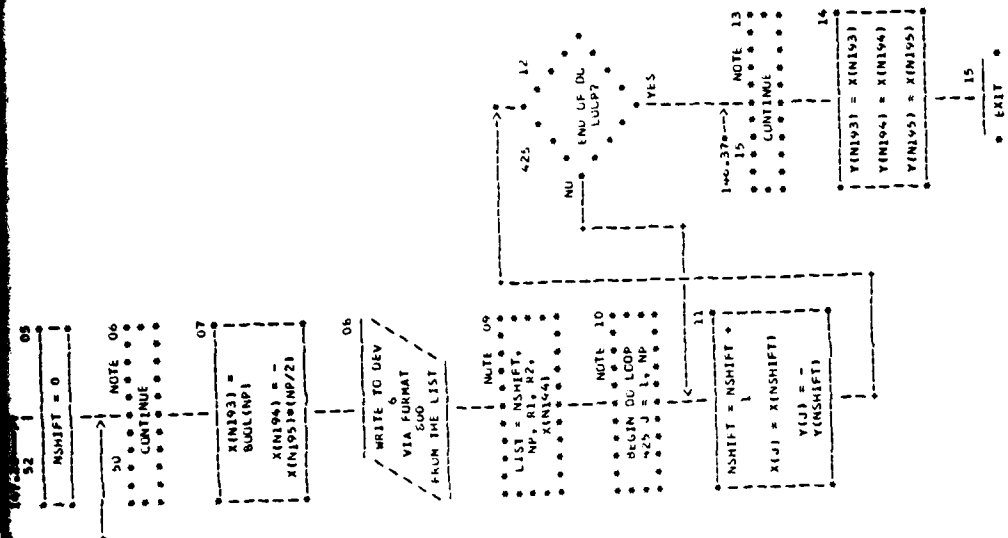


02/11/75

CHART TITLE - SUBROUTINE ZPTTRCVI

AUTOFLOW CHART SET - FWD/SCL RADSIM





08/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

```

COMMON/BLK1/ BK1(500)
DOUBLE PRECISION CDEL,SDEL,CS,SN,CT,P12,SCALE
EQUIVALENCE ( N2 ,BK1(1)) , (FSHIFT,BK1(15)) , (ICPLX1,BK1(6)),
              (ICPLXF,BK1(7)) , (SIMBW,BK1(4)) , (INORM ,BK1(9))
DATA P12/6.28318530667D0/
DATA N193,N194,N195,N196/-3,-2,-1,0/
REAL X(1),Y(1),I,I1,I2,I3,I4
INTEGER PASS, SEQLOC, L(14)
EQUIVALENCE (J,J1), (N4POM,J5), (PASS,J6),
              (NXTLTH,J7), (LENGTH,J8), (SEQLOC,J9), (ISCALE,J10),
              (IARG,J11) , (A1,J12) , (C2,L1), (C3,L2), (S1,L3),
              (S2,L4), (S3,L5), (R1,L6), (R2,L7), (R3,L8), (R4,L9),
              (R,I)
EQUIVALENCE (L14,L(1)), (L13,L(2)), (L12,L(3)), (L11,L(4)),
              (L10,L(5)), (L9,L(6)), (L8,L(7)), (L7,L(8)), (L6,L(9)), (L5,L(10)),
              (L4,L(11)), (L3,L(12)), (L2,L(13)), (L1,L(14))
33  FORMAT(' NUMBER OF INPUT SAMPLES',I4,' EXCEEDS SPECIFIED TIME',
          ' SPAN=2**N2=',I4)
310  FORMAT (' THE SIZE OF THE TRANSFORM ARRAY HAS BEEN EXPANDED',
          ' TO 2**',I2)
800  FORMAT(IH ,2I10,6E15.6)
305  FORMAT(' THE NUMBER OF ARRAY ELEMENTS REQUIRED AFTER HETERODYNING',
          ' IS, ' EXCEEDED AVAILABLE STORAGE...ARRAY REDUCED TO',I5,
          ' BY DELETING HIGH FREQ TERMS')
406  FORMAT(' NUMBER OF LOCATIONS REQD AFTER HETERODYNING',
          ' EXCEEDED AVAILABLE STORAGE...',I5,' ELEMENTS DELETED',
          ' FROM NEGATIVE END OF ARRAY')
53  FORMAT(' THE VALUE OF NSHIFT IS NEGATIVE...NSHIFT SET TO 0')
51  FORMAT(IH , ' THE SUM OF NSHIFT',I10, ' AND NP',I10, ' IS GT NTHPOW..
          NSHIFT SET TO 0')

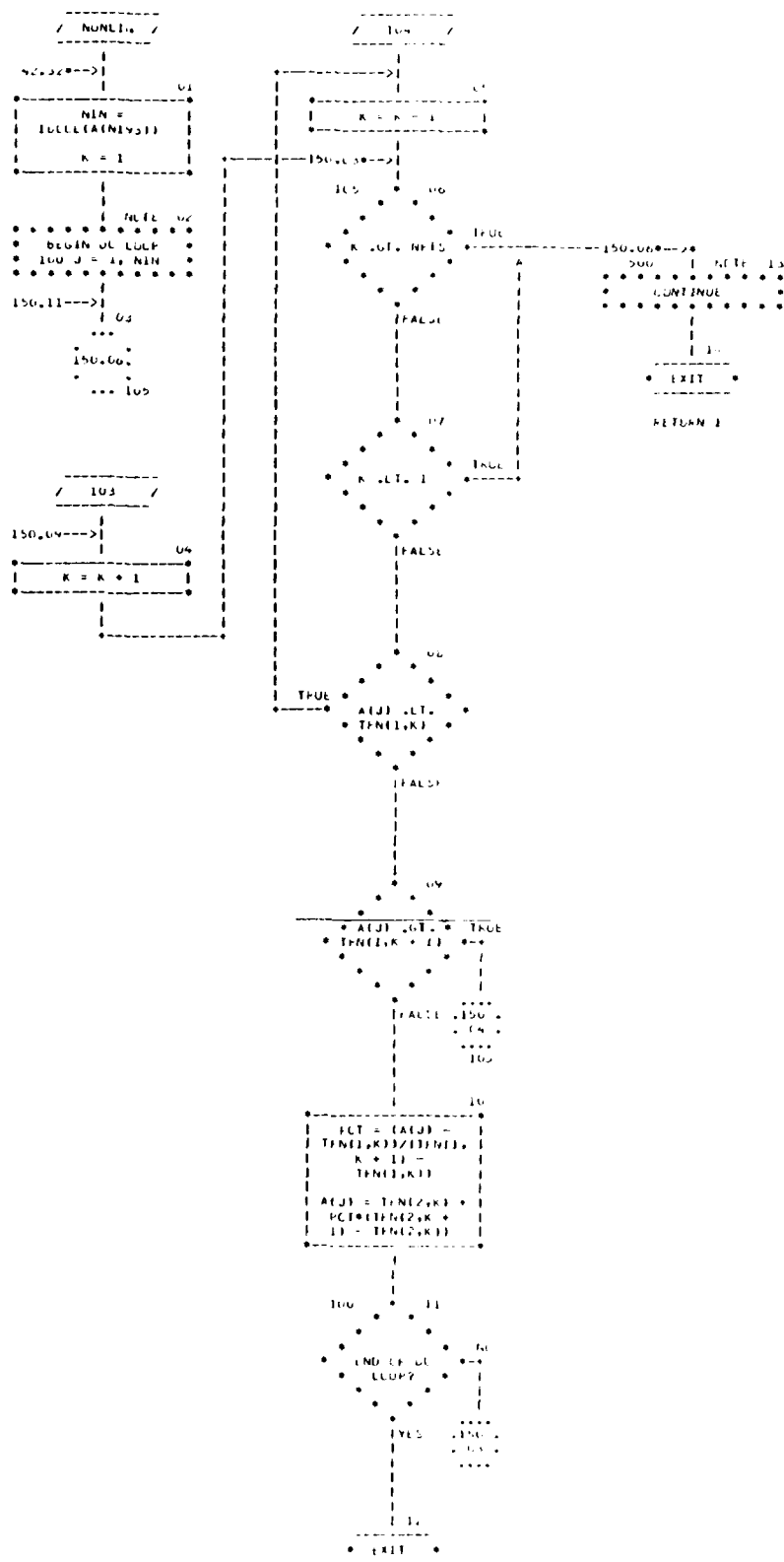
```

9-134

02/11/75

AUTOFLOW CHART FOR PROGRAM FAUJIM

CHART TITLE - SUBROUTINE NUNL1(A,0)



ARTUPLW CHART SET - FWD/SCL KAUSIM

08/11/79

CHART FILE - NON-PROCEDURAL STATEMENTS

COMMON/BLK1/BLK1(500)
DIMENSION A(1),TFN(2,50)
EQUIVALENCE (BK1(21), IUMY), (BK1(27), NPTS),
 (BK1(201), TFN(1,1))
DATA N143,N144,N145,N146/-3,-2,-1,0/

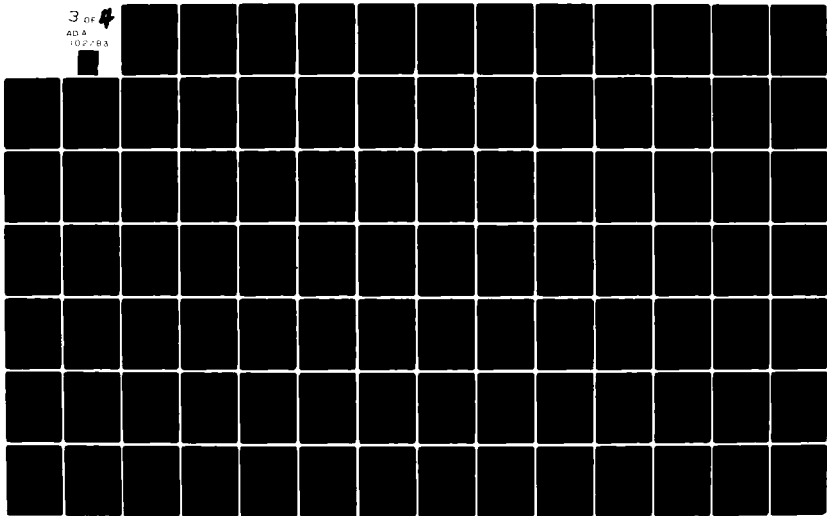
AD-A102 783

GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/6 17/9
ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING. VOLUME II. PAR--ETC(U)
JUN 76 R J HANCOCK, F H CLEVELAND F30602-73-C-0380

UNCLASSIFIED

RADC-TR-76-186-VOL-2-PT-2 NL

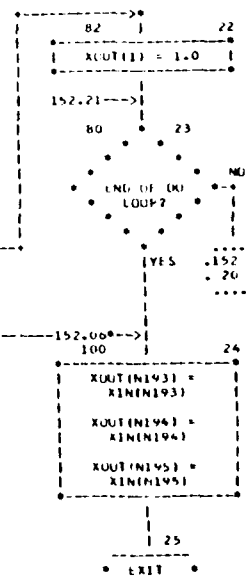
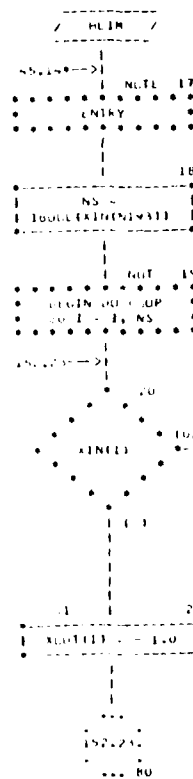
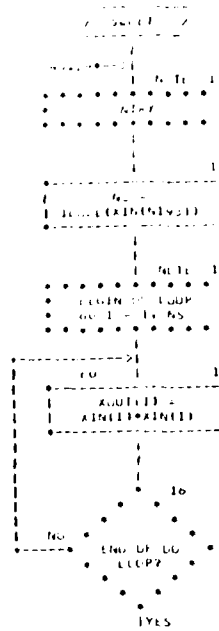
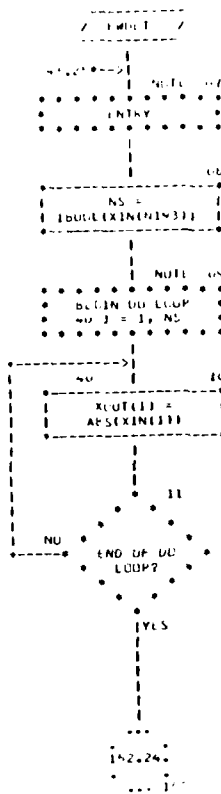
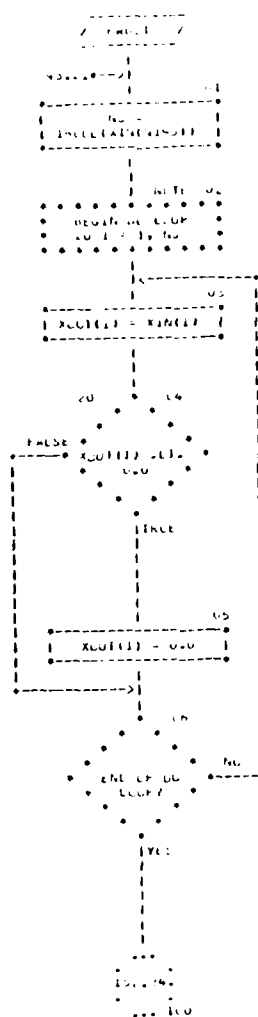
3 OF 4
AD A
102783



10-10-77

10-10-77

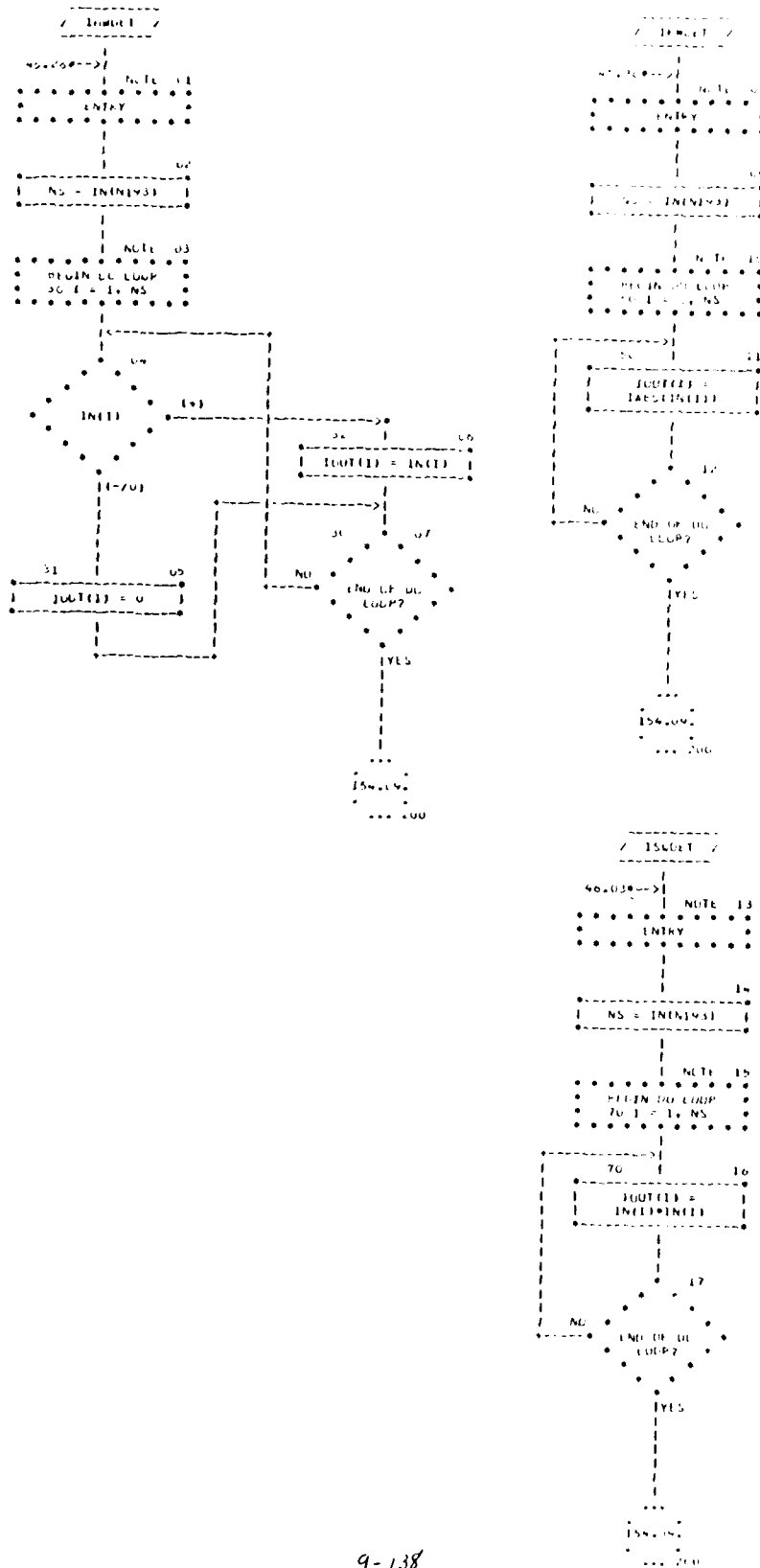
10-10-77



08/11/75

AT TOWER CONTROL CENTER, CH 2, CL 1, 1A, 1B

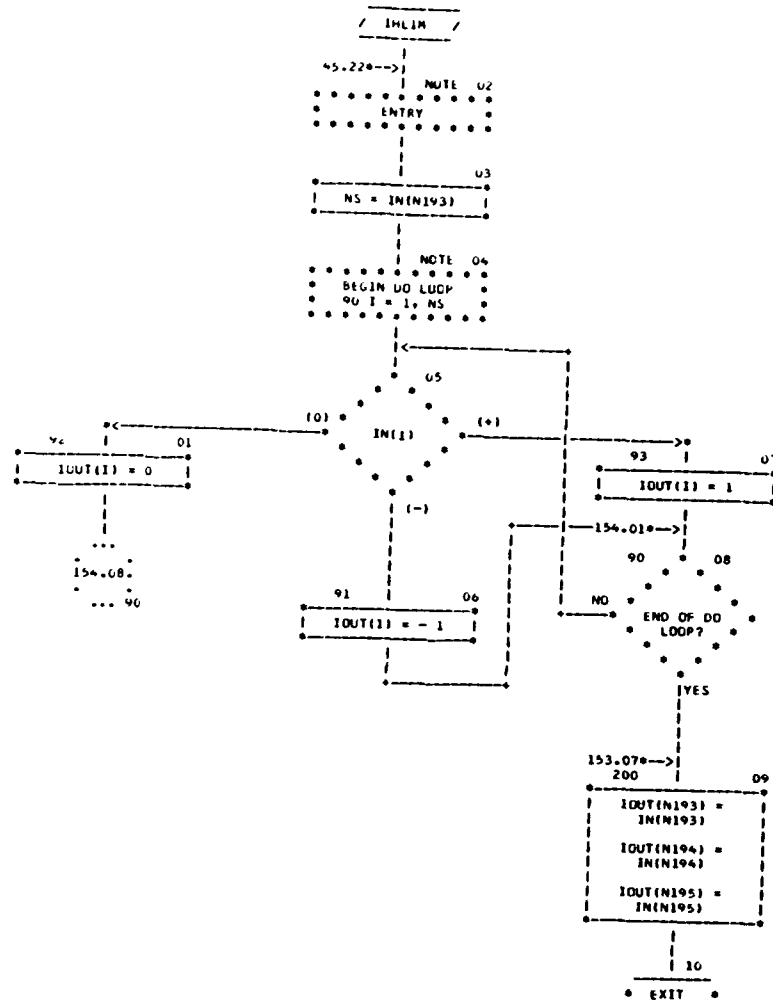
CHART TITLE = ROUTING INSTRUCTIONS



01/11/75

AUTOFLOW CHART SET - FMO/SCL RADSIM

CHART 1111 - SUBROUTINE MWLETERIN,ROUT



NON-PROCEDURAL STATEMENTS

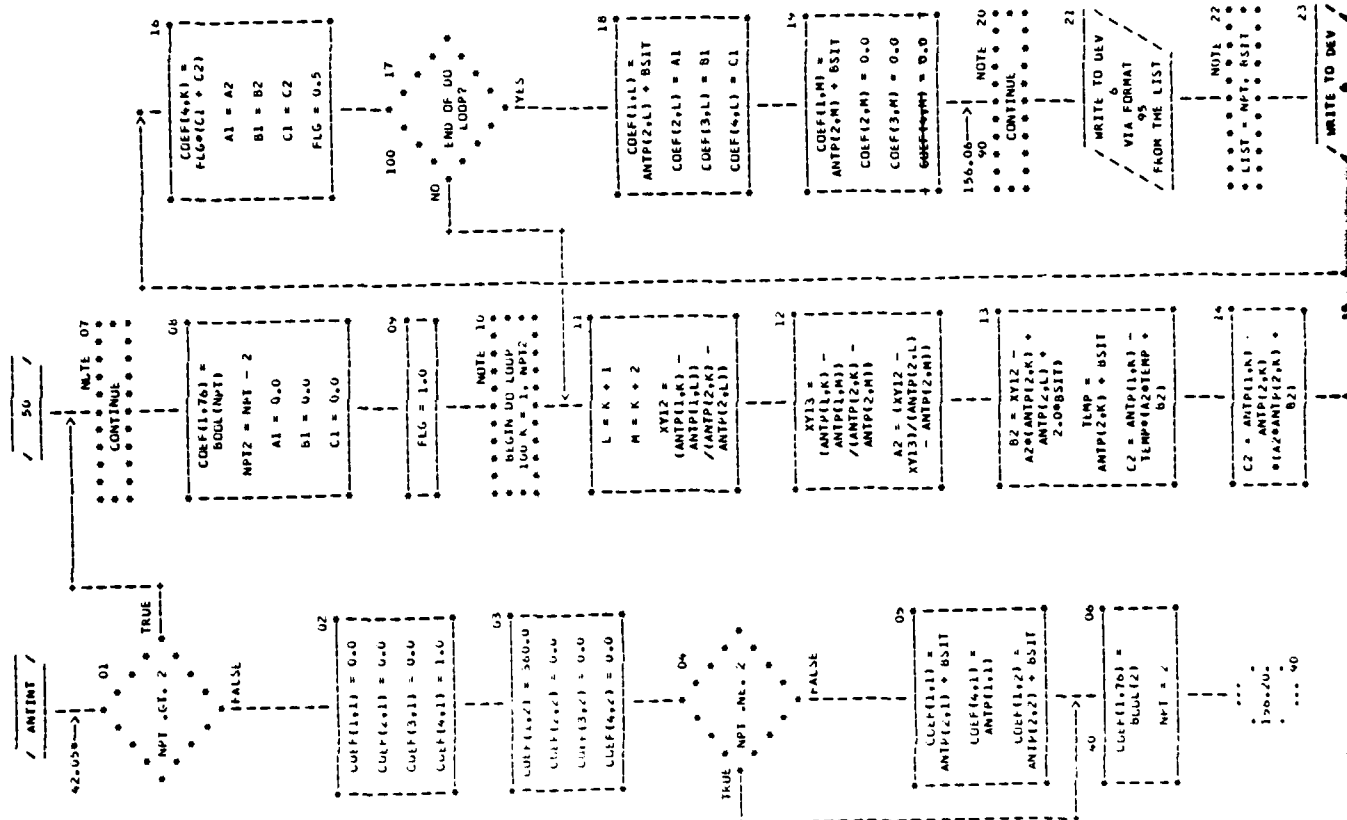
DIMENSION XIN(1),XOUT(1),IN(1),IOUT(1)
DATA N193,N194,N195,N196/-3,-2,-1,0/

08/11/79

AUTOFLOW CHART SET - FMO/SCL RADSIM

CHART TITLE - SUBROUTINE ANTINT(NPT,BSIT,ANTP,COEF)

9-140



```

ANTP12,M) * BSIT
COEF(2,M) = 0.0
COEF(3,M) = 0.0
COEF(4,M) = 0.0
156.06-->
90
NOTE 20
CONTINUE
21
WRITE TO DEV
VIA FORMAT
FROM THE LIST
22
NOTE 22
LIST = NPT, BSIT
23
WRITE TO DEV
VIA FORMAT
FROM THE LIST
24
NOTE 24
LIST =
1,ANTP12,K),J =
1,2),SCOEFL,K) =
L = 1,4),K =
1,NPT)
25
EXIT

```

```

ANTP12,K) -
ANTP12,M)
A2 = (XV12 -
XY13)/(ANTP12,K) -
- ANTP12,M))
13
B2 = XY12 -
A2*ANTP12,K) +
ANTP12,L) +
2.0*BSIT
TEMP =
ANTP12,K) + BSIT
C2 = ANTP12,K) -
TEMP*(A2*TEMP +
B2)
14
C2 = ANTP12,K) -
ANTP12,K) +
*(A2*ANTP12,K) +
B2)
15
COEF(1,K) =
ANTP12,K) + BSIT
COEF(2,K) =
FLO*(A1 + A2)
COEF(3,K) =
FLO*(B1 + B2)

```

```

09
COEF(1,1) =
ANTP12,1) + BSIT
COEF(4,1) =
ANTP11,1)
COEF(1,2) =
ANTP12,2) + BSIT
40
COEF(1,76) =
BULL(2)
NPT = 2
06
...
130,20
...
... 90

```


00/11/75

AUTOFLOW CHART SET - FWC/SCL RADSIM

Chart Title - NON-PROCEDURAL STATEMENTS

9-1 41

DIMENSION ANTP(2,75),CDEF(4,76)

95 FORMAT(1H1,'SUEKROUTINE ANTIPT NPT =',15, ' ESIT =',1PE13.7)

105 FORMAT (1H ,6(1PE20.7))

```

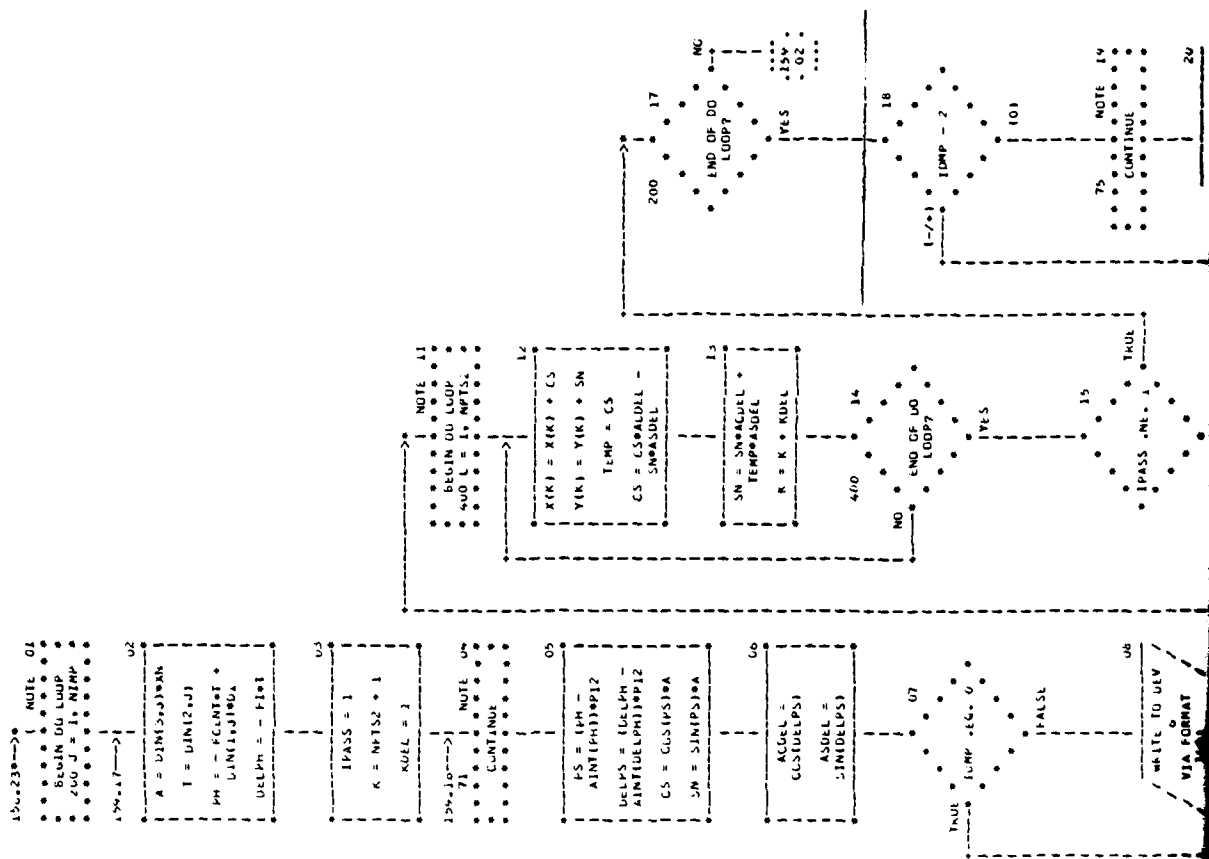
graph TD
    01[01] --> 02[02]
    02 --> 03[03]
    03 --> 04[04]
    04 --> 05[05]
    05 --> 06[06]
    06 --> 07[07]
    07 --> 08[08]
    08 --> 09[09]
    09 --> 10[10]
    10 --> 11[11]
    11 --> 12[12]
    12 --> 13[13]
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    15 --> 16[16]
    16 --> 17[17]
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    189 --> 190[190]
    190 --> 191[191]
    191 --> 192[192]
    192 --> 193[193]
    193 --> 194[194]
    194 --> 195[195]
    195 --> 196[196]
    196 --> 197[197]
    197 --> 198[198]
    198 --> 199[199]
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    201 --> 202[202]
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    212 --> 213[213]
    213 --> 214[214]
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    216 --> 217[217]
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    218 --> 219[219]
    219 --> 220[220]
    220 --> 221[221]
    221 --> 222[222]
    222 --> 223[223]
    223 --> 224[224]
    224 --> 225[225]
    225 --> 226[226]
    226 --> 227[227]
    227 --> 228[228]
    228 --> 229[229]
    229 --> 230[230]
    230 --> 231[231]
    231 --> 2
```

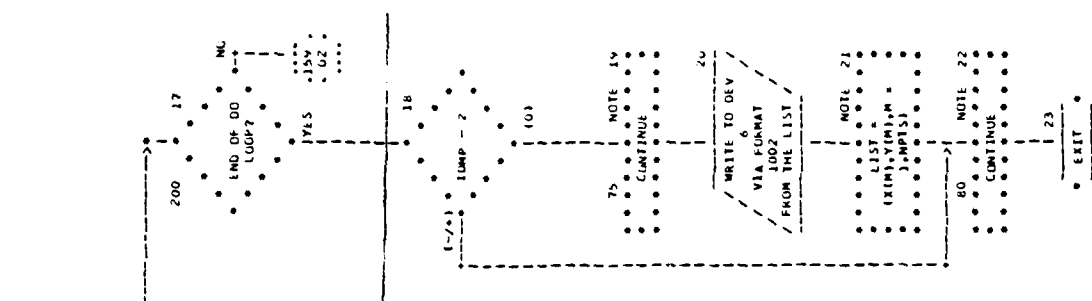
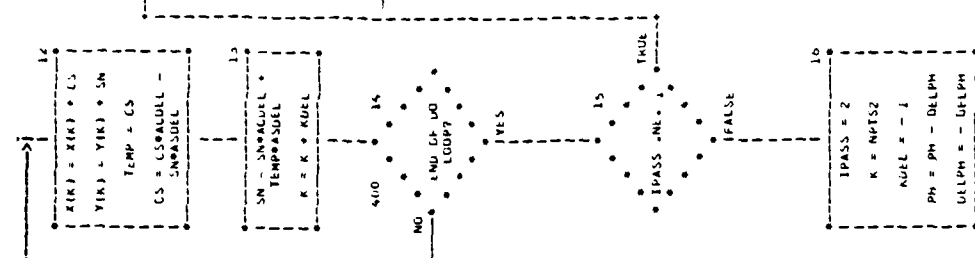
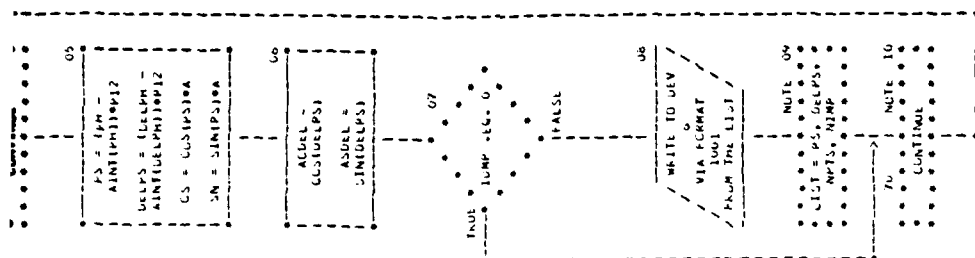
9-142

08/11/75

CHART TITLE - SUBROUTINE OPT(X,Y)

AUTOFLOW CHART SET - FMD/SCL RADSIM





08/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

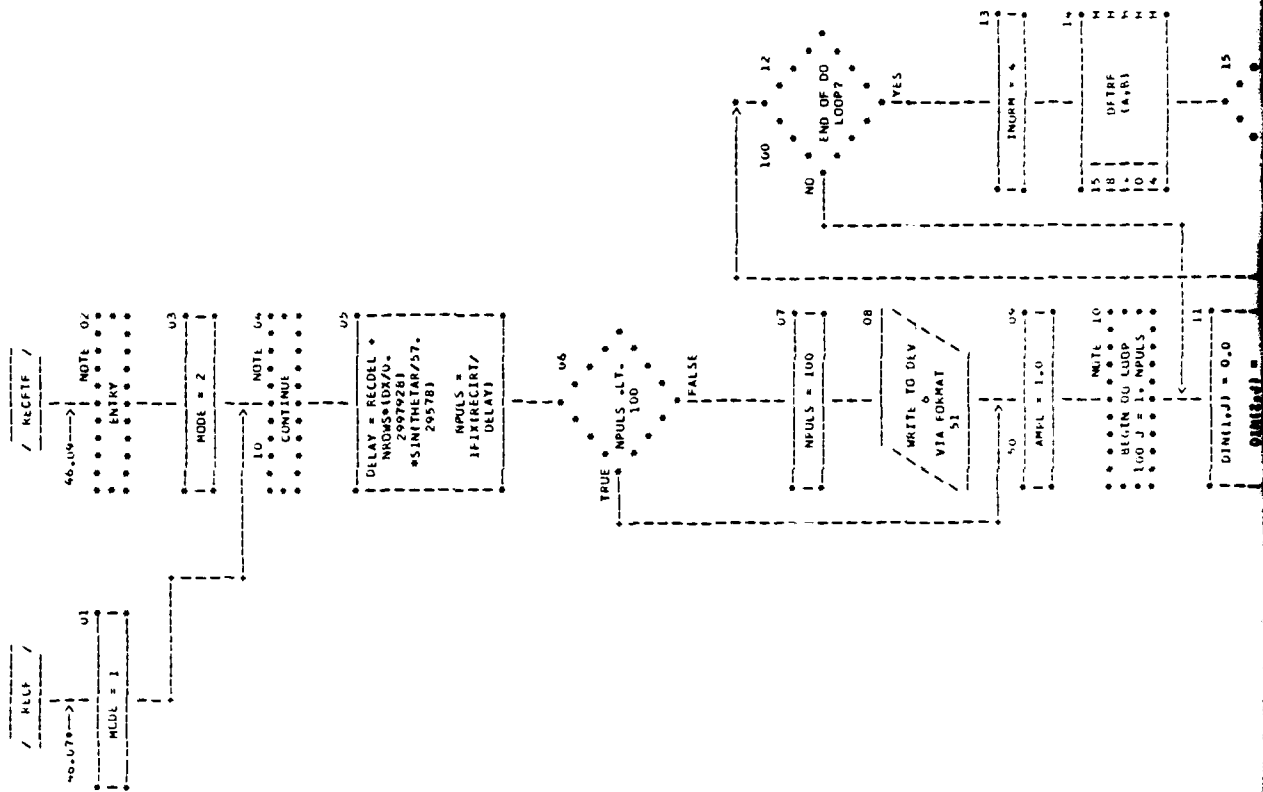
COMMON/BLK1/ BK1(200),DIN(3,100)
EQUIVALENCE (SIMFO,BK1(8)) , (FI,BK1(11)) , (FEXT,BK1(4)),
 (NIMP,BK1(200)), (IOMP,BK1(21)), (FO,BK1(3))
 ,(INORM ,BK1(9)), (TI ,BK1(12))
DIMENSION X(1) , Y(1)
DATA N193,N194,N195,P12,D1/-3,-2,-1,6.2831853,2.7777778E-03/
1007 FORMAT(IH ,8E15.5)
1001 FORMAT(' PH=',1PE13.6,' DELPH=',1PE13.6,' NPIS=',110,' NIMP=
 ',110)
1002 FORMAT(1H0, 6E20.5)

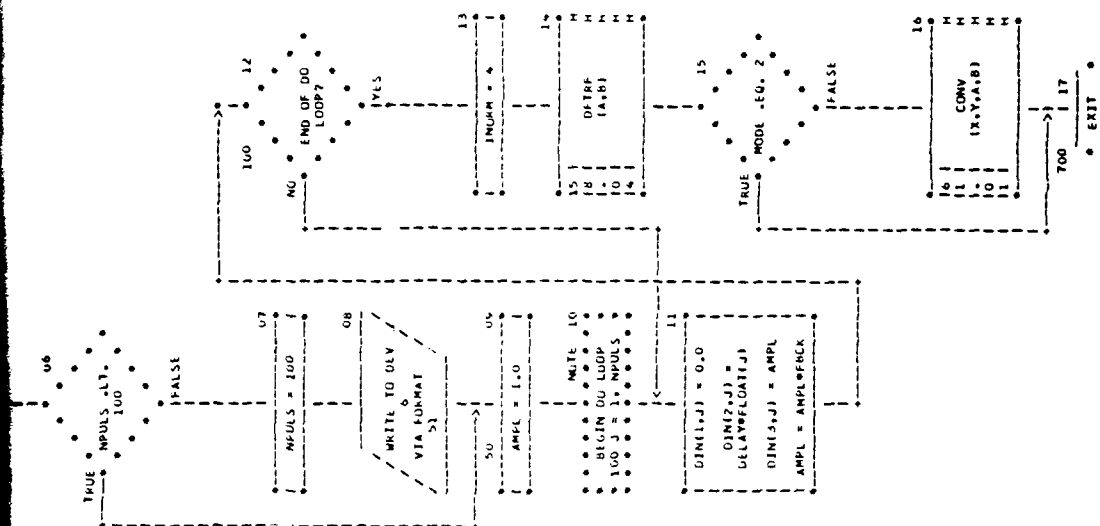
9-144

AUTOFLOW CHART SET - PHU/SCL KAUSIM

UC/11/75

UPAKT BILIC - UNPLAUTING KECIFX.Y.A.01





9-145

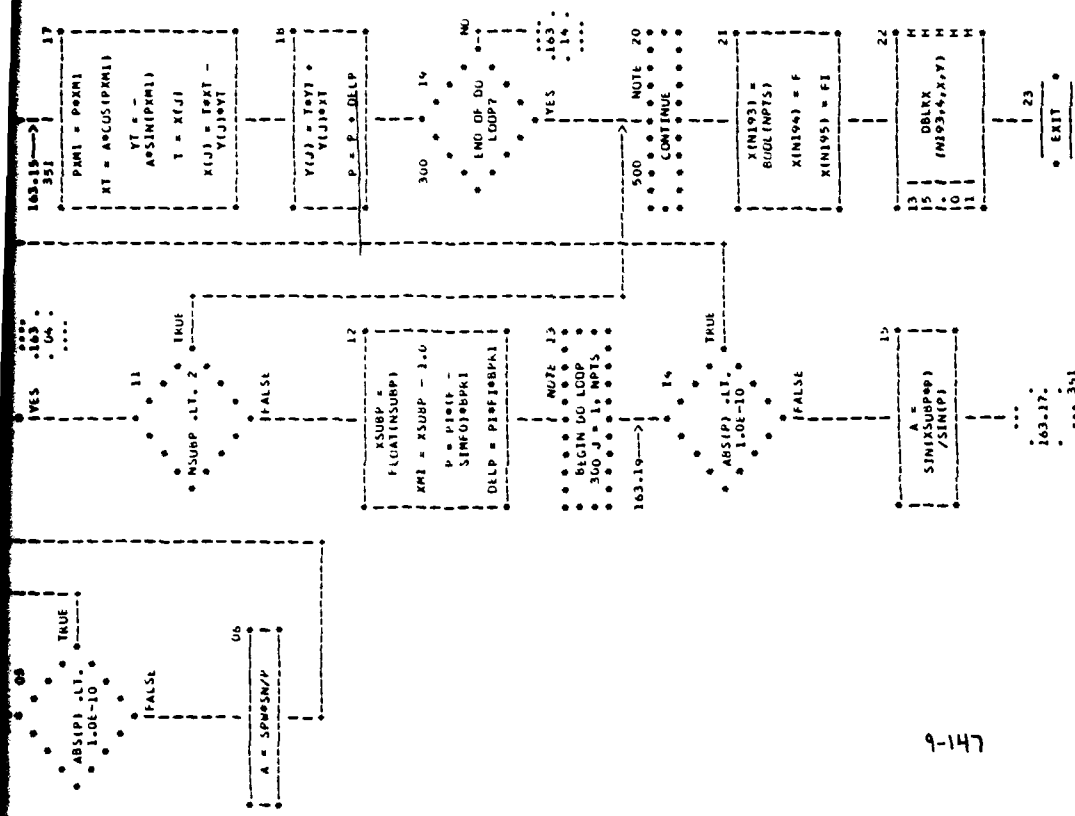
00/11/12 AUTOFLW CHART SET - FWU/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

COMMON/5LK1/ BK1(200),DIN(3,100)
DIMENSION X(1),Y(1),A(1),B(1)
EQUIVALENCE (BK1(75), FBCK),(BK1(117), KCDL),
(BK1(118),RECINT),(BK1(119), THEIAR),
(BK1(77),DX),(BK1(79), NEUWS),
(BK1(200),NPULS),(INORM,BK1(9))

51 FORMAT(' RECEIVER PROCESSOR IMPULSE RESPONSE LIMITED TO',
* 100 LOOP DELAYS')

9-146



9-147

08/11/75

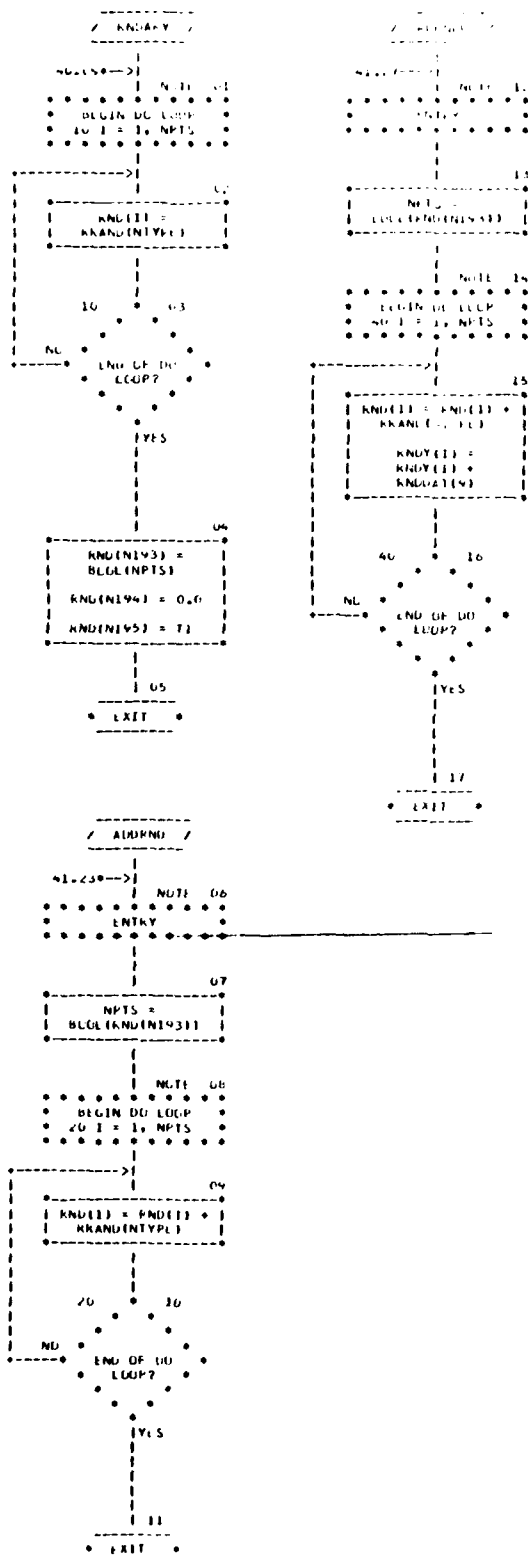
AUTOFLOW CHART SET - FWG/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

```
COMMON/BLK1/ BK1(500)
EQUIVALENCE (SIMF0,BK1( 8)),(SIMBW,BK1( 4)),
(F1,BK1( 11)),(SPW,BK1( 95)),(NSUBP,BK1( 96)),
(BPK1,BK1(114))
DIMENSION X(1),Y(1)
DATA P1,N103,N194,N195/3.1415926,-3,-2,-1/
```

9-148

ADDITIONAL INFORMATION



08/11/75

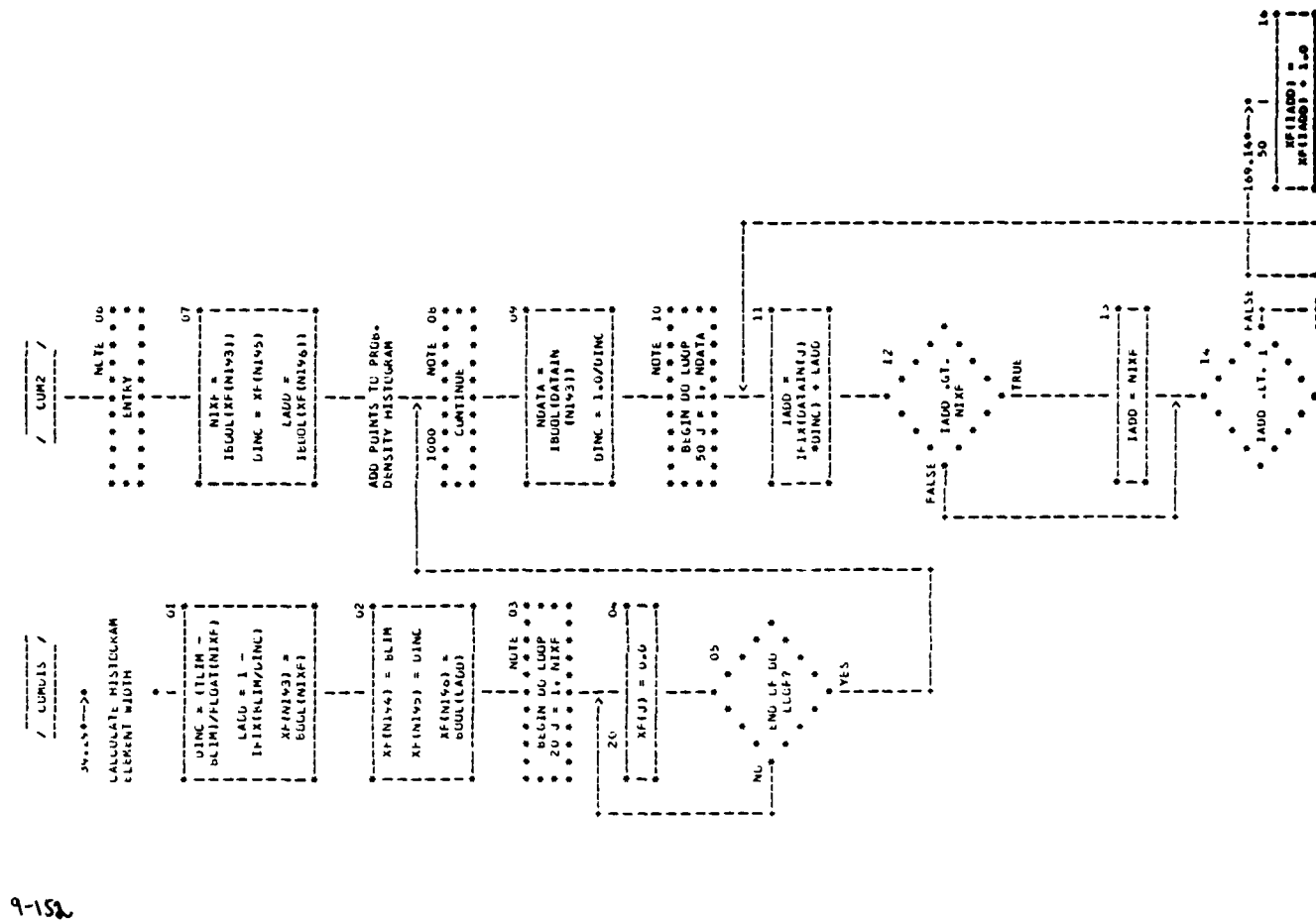
AUTOFLOW CHART SET - FWC/SCL RADSIM

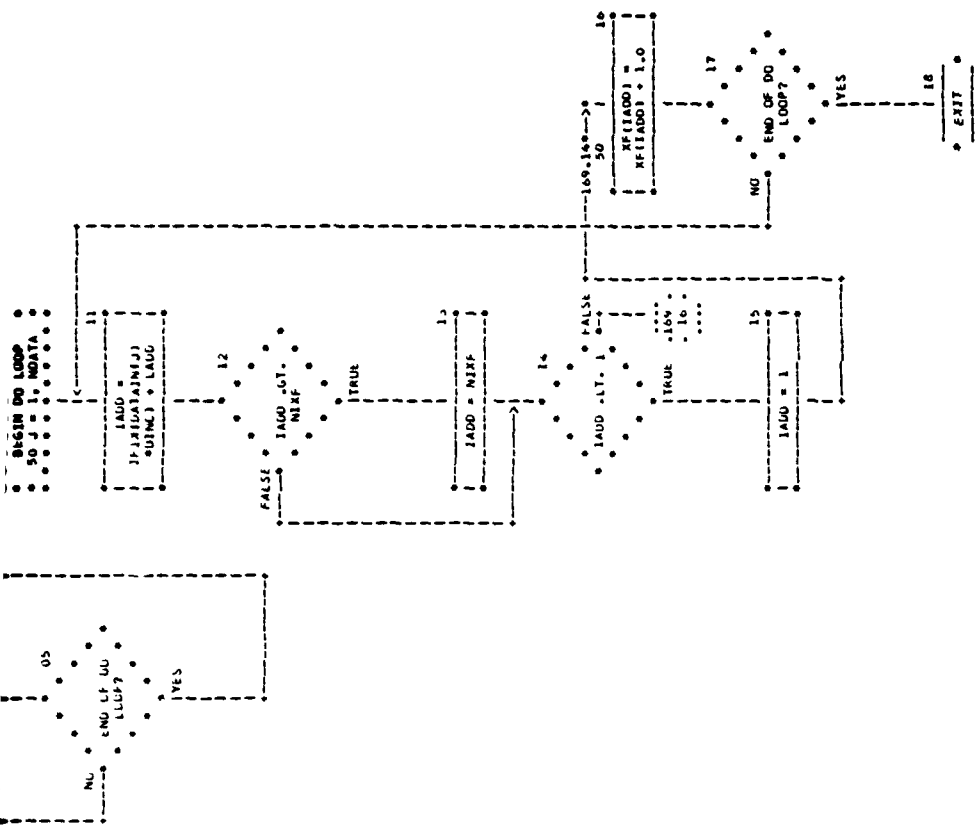
CHART: TITLE - NON-PROCEDURAL STATEMENTS

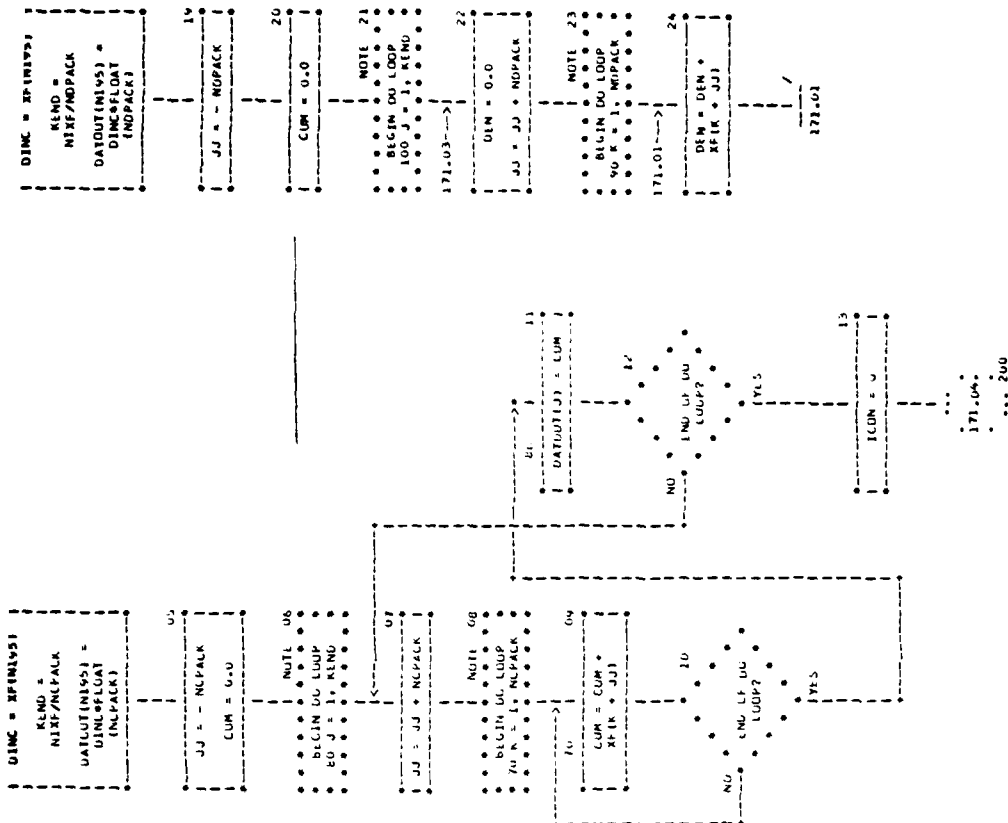
```
COMMON/BLK1/BK1(500)
COMMON/BLKRND/ RND DAT(141)
DIMENSION RND(1),RNDY(1)
EQUIVALENCE (BK1( 44), NPTS ),(BK1( 45), NTYPE)
EQUIVALENCE (BK1( 12), TI)
DATA N193,N194,N195,N196/-3,-2,-1,0/
```

9-151

UNIT FILE - STUDENT CUMULATIVE (UNITALN.XF)







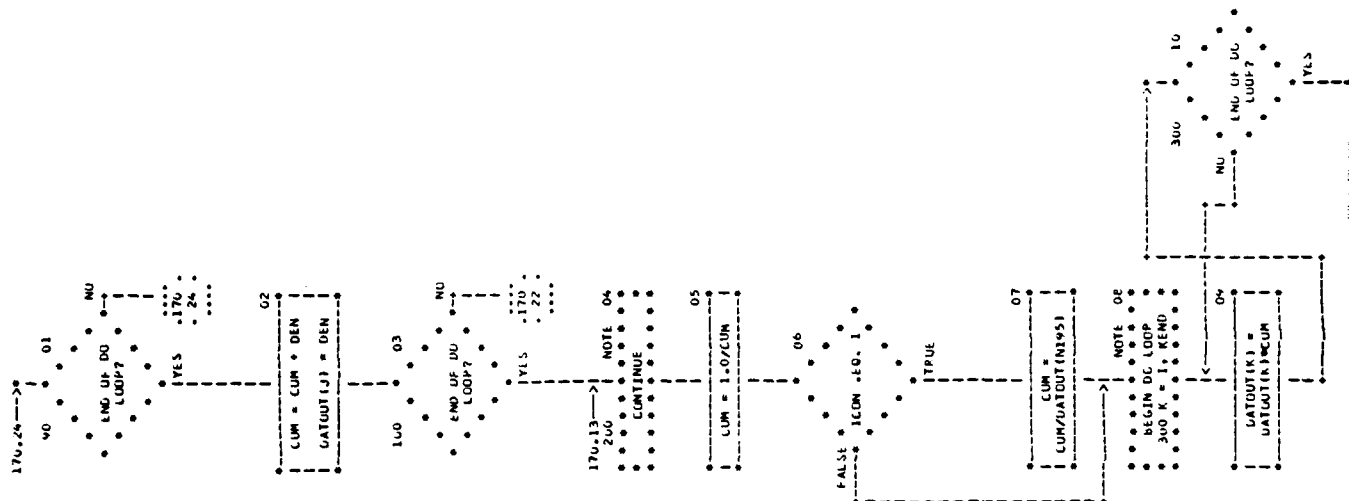
9-153

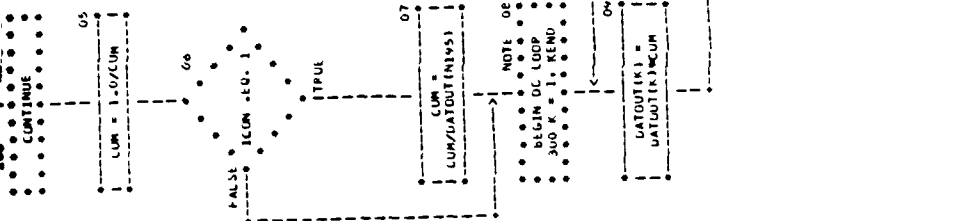
06/11/75

CHART TITLE - SUBROUTINE CUMULISUMTAIN.XP1

9-154

AUTOFLUM CHART SET - FNU/SLC MAUSIM





08/11/75

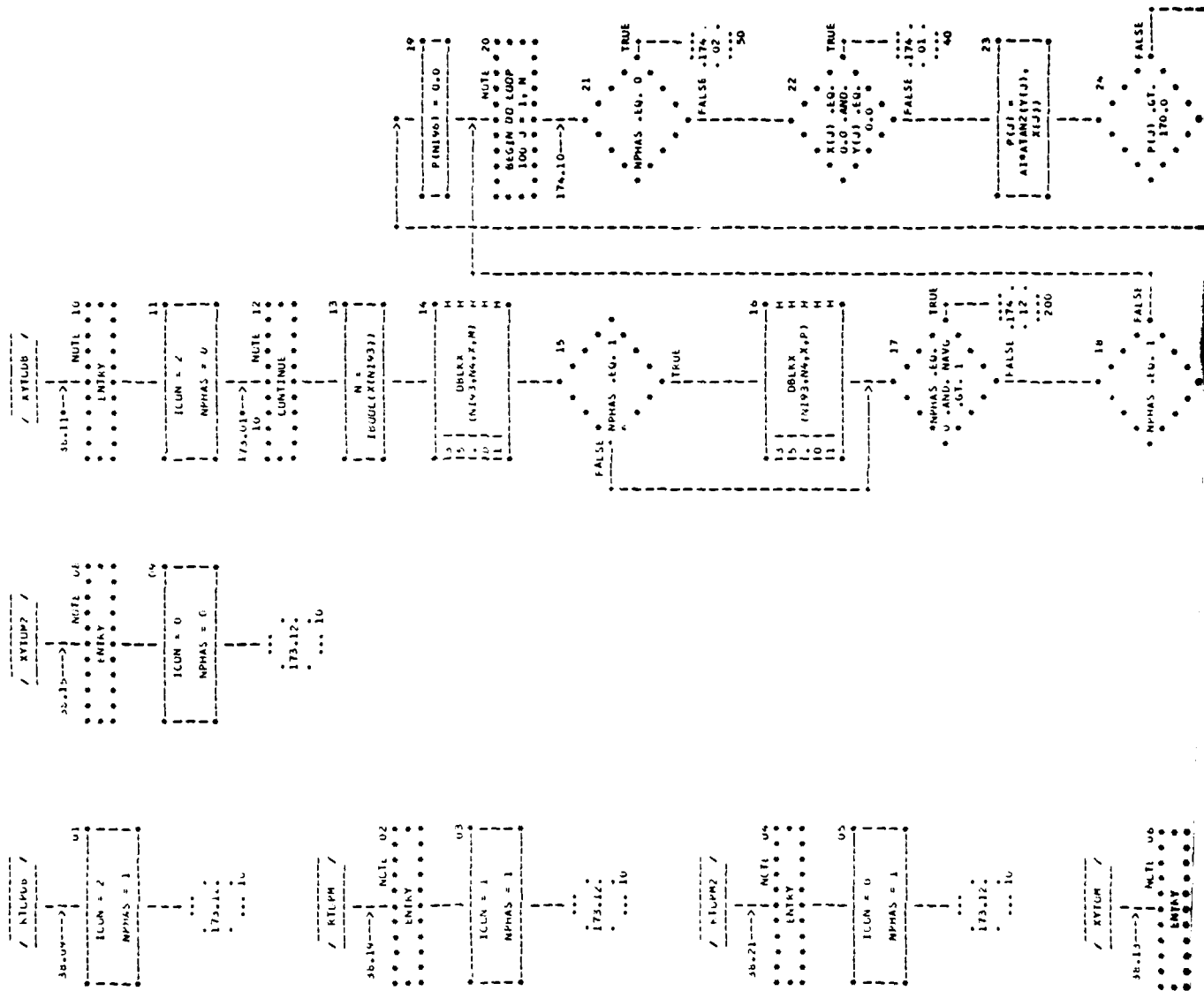
AUTOFLOW CHART SET - FWU/SCL RAUSIM

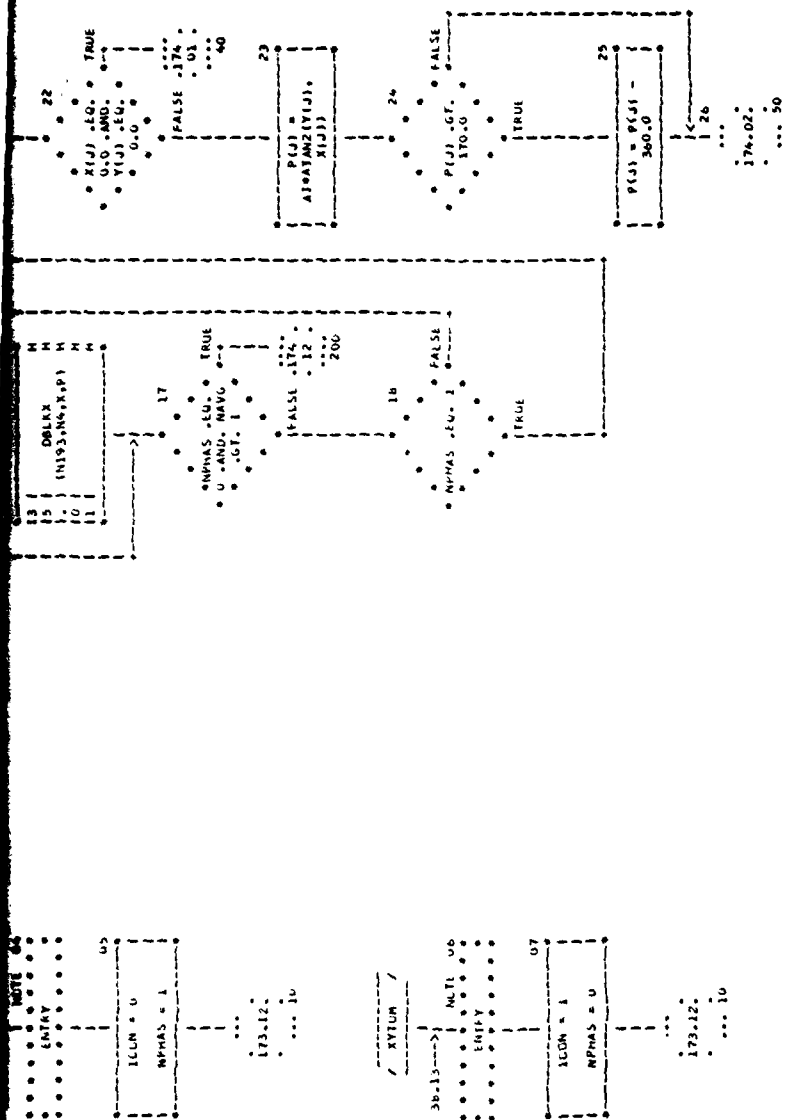
CHART TITLE - NON-PROCEDURAL STATEMENTS

```
CUMMLN/BLK1/BK1(500)
DIMENSION DATIN(1),DATOUT(1),XF(1)
EQUIVALENCE (FK1( 39), TLIM      ),
              (BK1( 40), BLIM      ), (BK1( 41), NIXF      ),
              (BK1( 42), NCPACK    ), (BK1( 43), NDPACK    )
DATA N193,N194,N195,N196/-3,-2,-1,0/
```

9-155

9-156

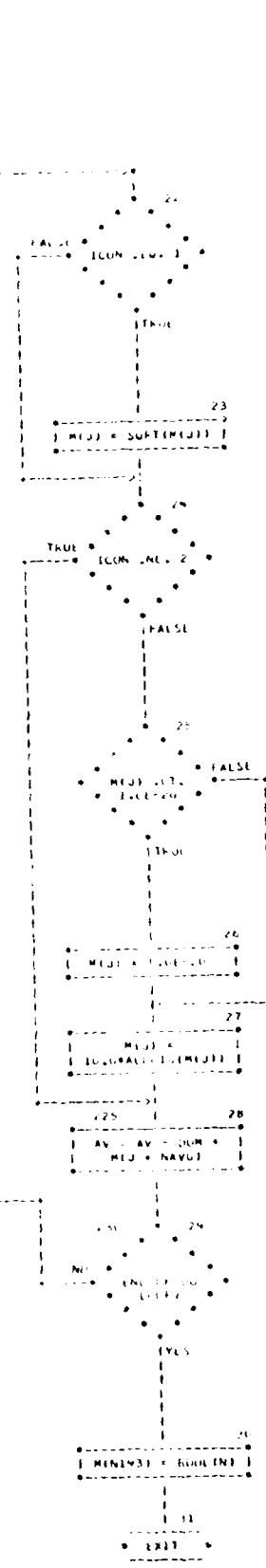
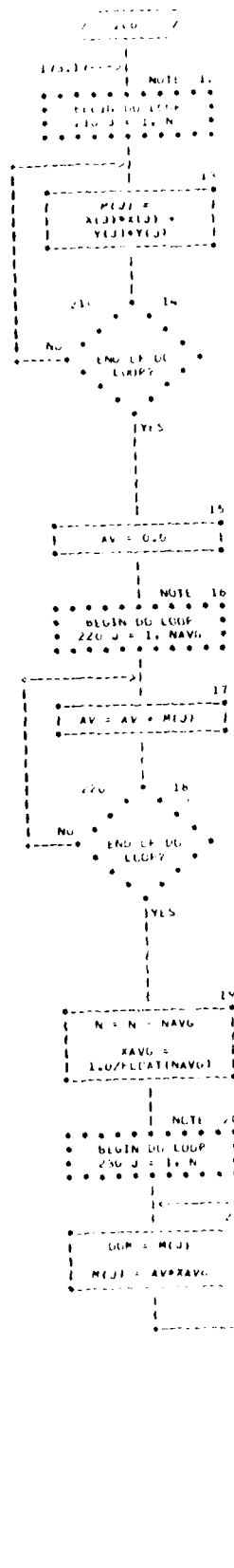
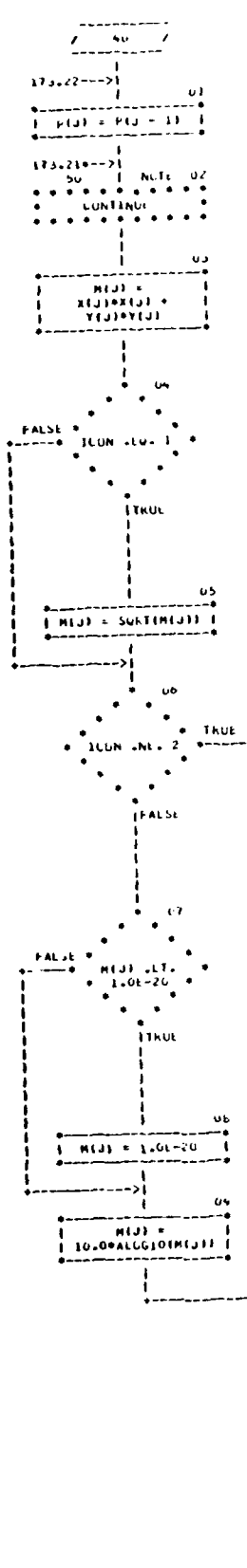




0021175

AUTOFLOW CHART FOR THE AUTOFLOW PROGRAM

CHART TITLE - AUTOFLOW PROGRAM



06/11/75

AUTOFLOW CHART SET - FWG/SCL RAUSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

9-158

```
COMMON/BLK1/ BK1(500)
EQUIVALENCE (BK1( 36), NAVG)
DIMENSION X(1),Y(1),M(1),P(1)
REAL M
DATA N193,N196,N4/-3,0,4/
DATA AI/57.24578/
```

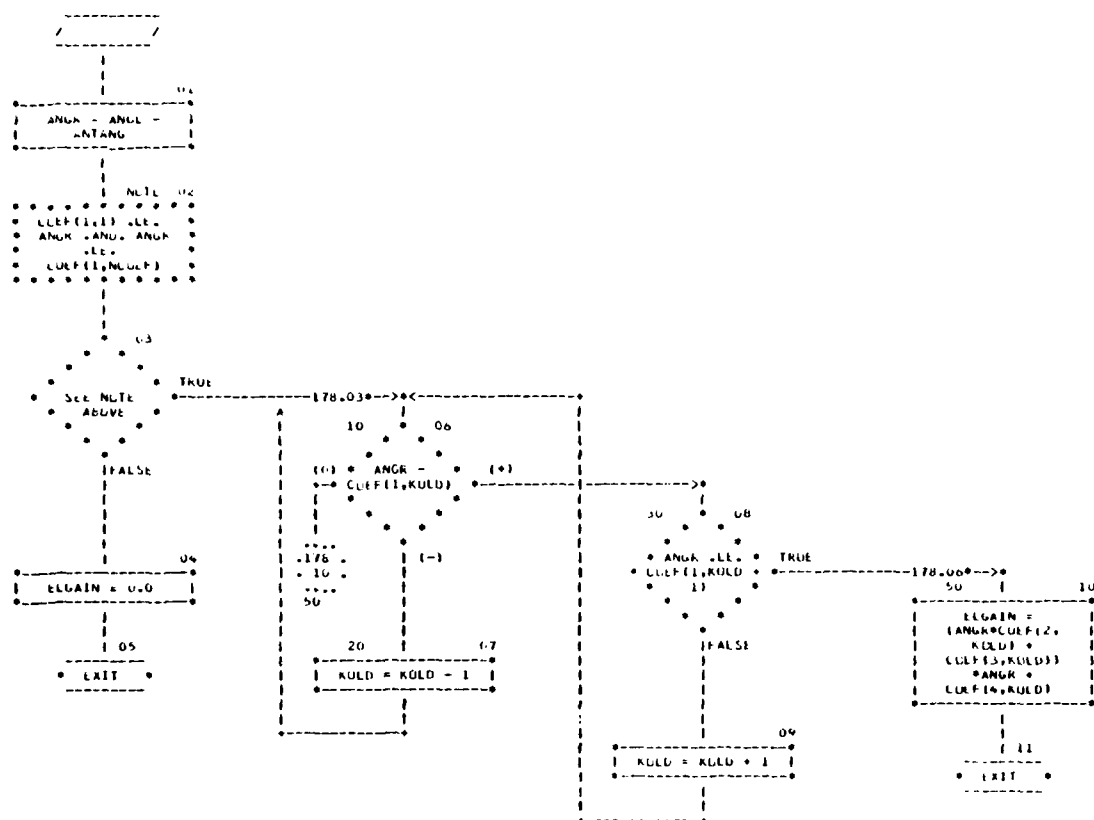
[illegible]

CUMMINS/AZCAT/CUTTING/STREET
CUMMINS/BKEL/WHITEHOUSE
CUMMINS/ENCL (ANTHONY/HILL)
WALSH, LUDIZ

0071177

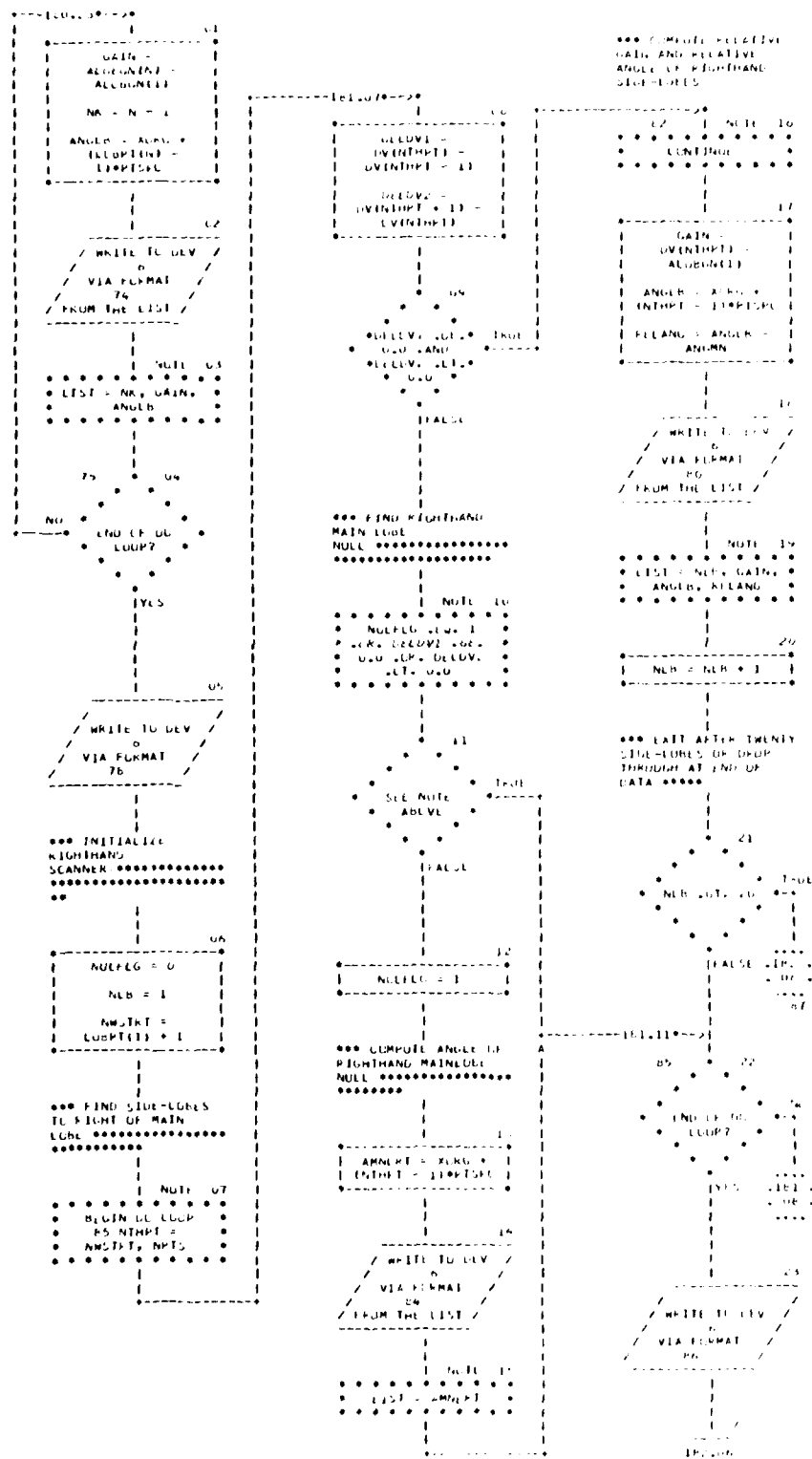
ACTED IN THE ...

WORK ITEM - FUNCTION - EQUIVALENT



NON-PROCEDURAL STATEMENTS

COMMON/ELPAT/ CUFF(4,75),NULP
COMMON /BK1/ BK1(500)
EQUIVALENCE (ANTANG,BK1(14))
DATA KULD/1/



08/11/75

CHART TITLE - SUBROUTINE SCANN (UV)

AUTOFLOW CHART VLT - FMC/SCL KAUSIM

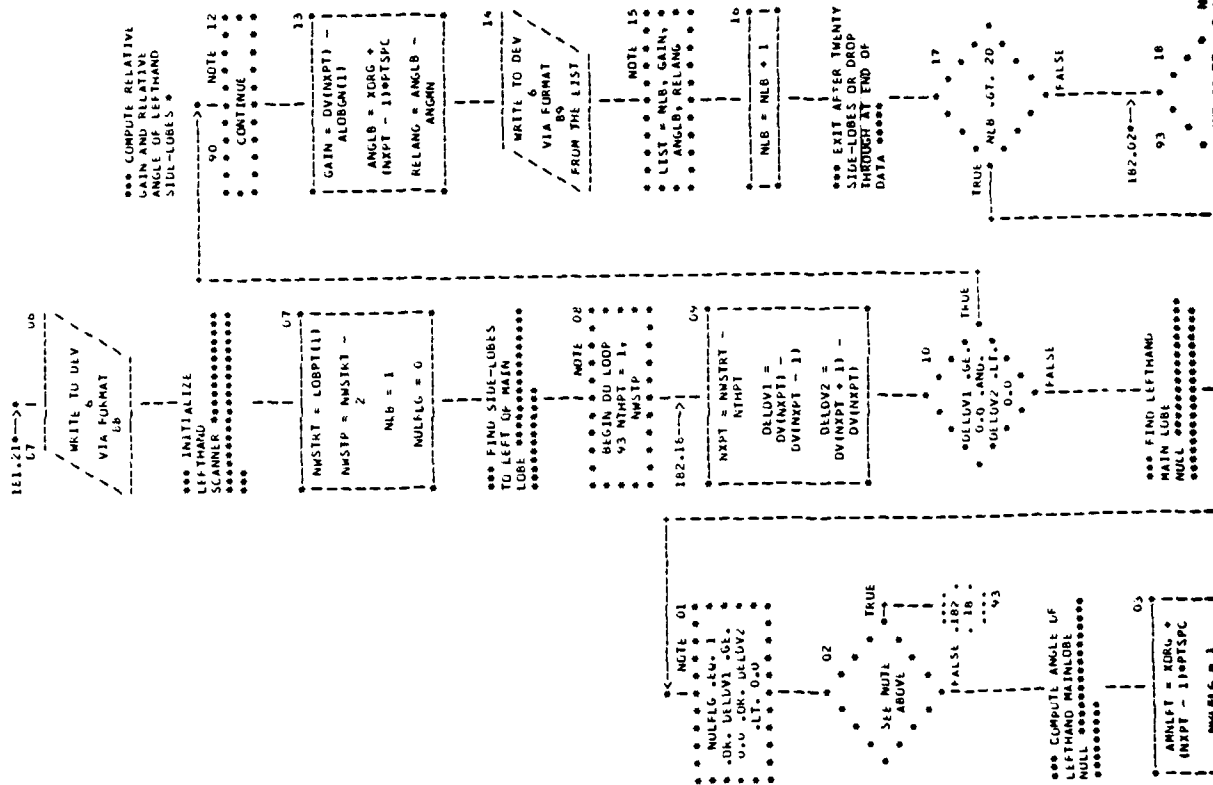


CHART TITLE - AUTOREGULATING STATEMENTS

```

DIMENSION LUBPT(22), ALLUB(22), DV(1)
DATA N103,N104,N105,N106,-5,-2,-1,0/
EQUIVALENCE (NPTS,XPTS)
1  FORMAT (1H0/47X,'* * * ANTENNA LOBE SCANNER * * *' / / )
200  FORMAT(' THE MAIN LOBE GAIN IS ',F13.7)
2  FORMAT(1H0,34X,' LOCATION AND RELATIVE GAIN OF HIGHEST 20 SIDE L
    UBS' / 35X,'RANK',17X,'REL. GAIN',10X,'ANGLE' / 58X,'( DB ',10X,
    '( DEG ' // 35X,'MAIN',20X,'0.0',17X,F13.7)
74  FORMAT(36X,12,10X,F13.7,44X,F13.7)
75  FORMAT(1H1,21X,'MAIN LOBE NULL AND FIRST 20 SIDE-LOBES TO RIGHT OF
    (ABOVE) MAIN LOBE'
    / 58X,'( DB ',10X,'( DEG ',10X,'( DEG ' / )
    / 58X,'( DB ',10X,'( DEG ',10X,'( DEG ' / )
76  FORMAT(56X,'MAIN LOBE',4X,'** NULL **',10X,F13.7)
    / 58X,'( DB ',10X,'( DEG ',10X,'( DEG ' / )
77  FORMAT(36X,13,2(10X,F13.7))
78  FORMAT(43X,' TWO FURTHER SIDE LOBS ON THE SIDE' )
79  FORMAT(1H0/22X,'MAIN LOBE NULL AND FIRST 20 SIDE-LOBES TO LEFT OF
    (BELOW) MAIN LOBE'
    / 58X,'( DB ',10X,'( DEG ',10X,'( DEG ' / )
    / 58X,'( DB ',10X,'( DEG ',10X,'( DEG ' / )
80  FORMAT(59X,13,3(10X,F13.7))

```


06/11/75

AUTOFLOW CHART SET - FWU/SCL KADSIM

CHART TITLE - NCS-PROCEDURAL STATEMENTS

```

DIMENSION E(1)
DATA N,43,N144,N145/-3,-2,-1/
2002  FORMAT(1H ,3I15,2E15.5)
2000  FORMAT(1H , , AVG= ,E15.7, , UK= ,E15.7, , NSAM= ,I10 )
2001  FORMAT(1H , , THE ANTENNA PATTERN IS NOT DEFINED OVER ALL VISIBLE S
PAGE.....AVERAGE POWER OVER ALL SPACE NOT DETERMINABLE ,// , UKIGINE
      ,E15.7)

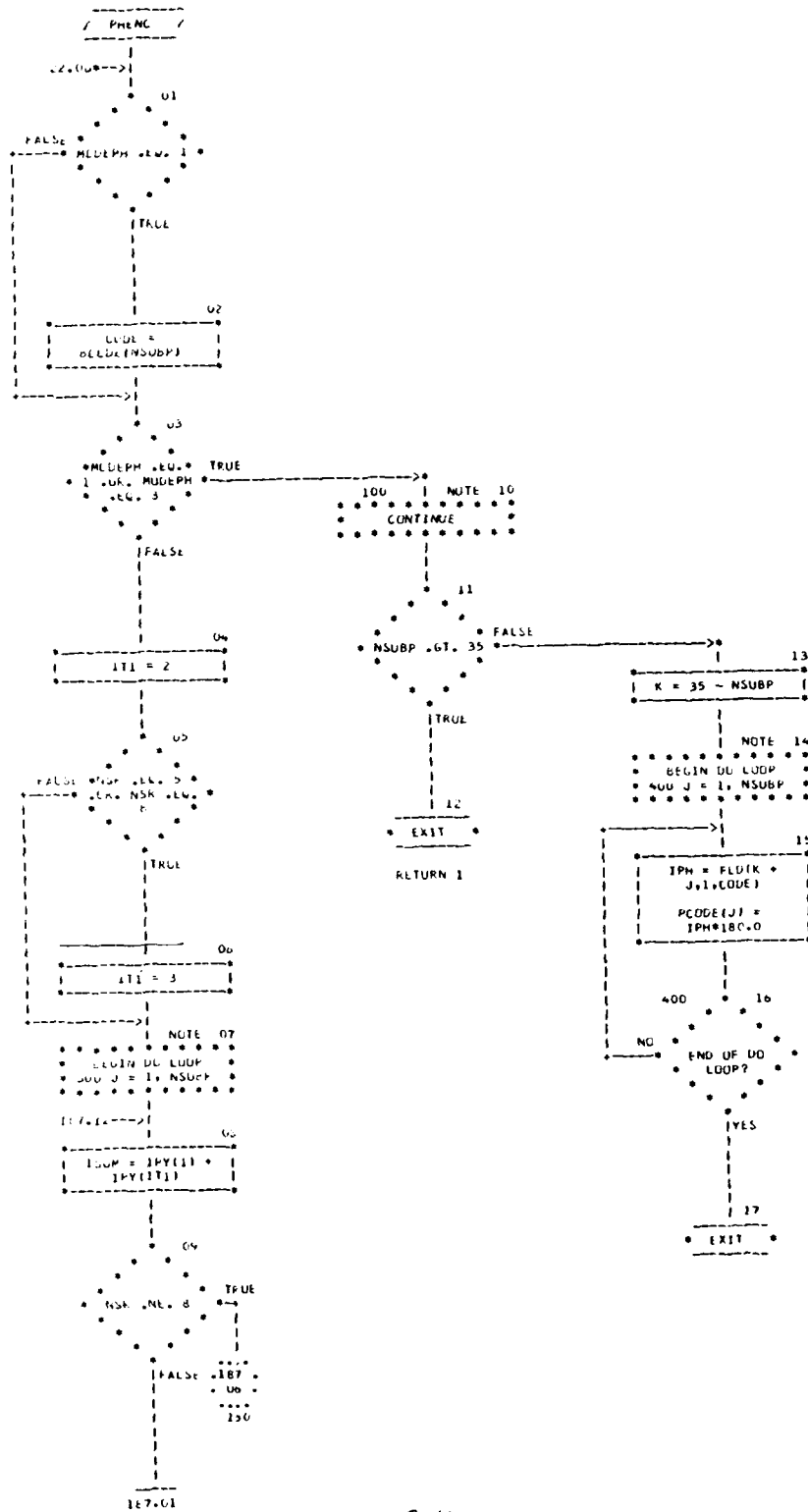
```

9-166

00/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE PHENC(0)



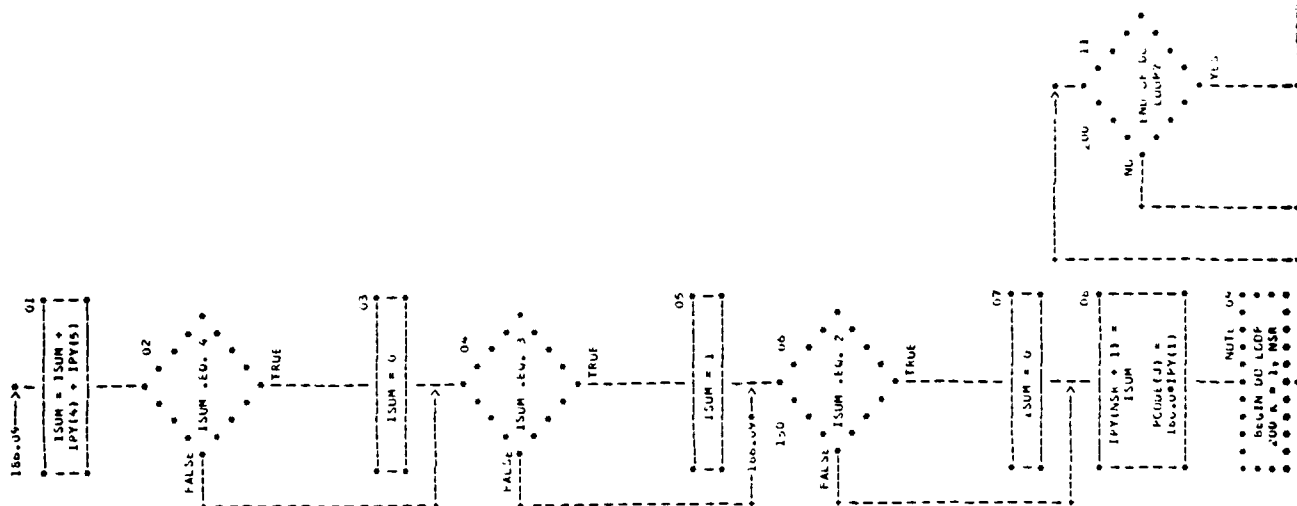
9-167

08/11/75

CHART TITLE - SUBROUTINE PRIME(0)

9-169

AUTOFLOW CHART SET - FWD/SCL RAUSIM





00/11/75

AUTOFLOW CHART SET - FWG/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

COMMON/BLK2/ B(200),PCODE(300)

EQUIVALENCE (B(96), NSUBP), (B(185), MODEPH),

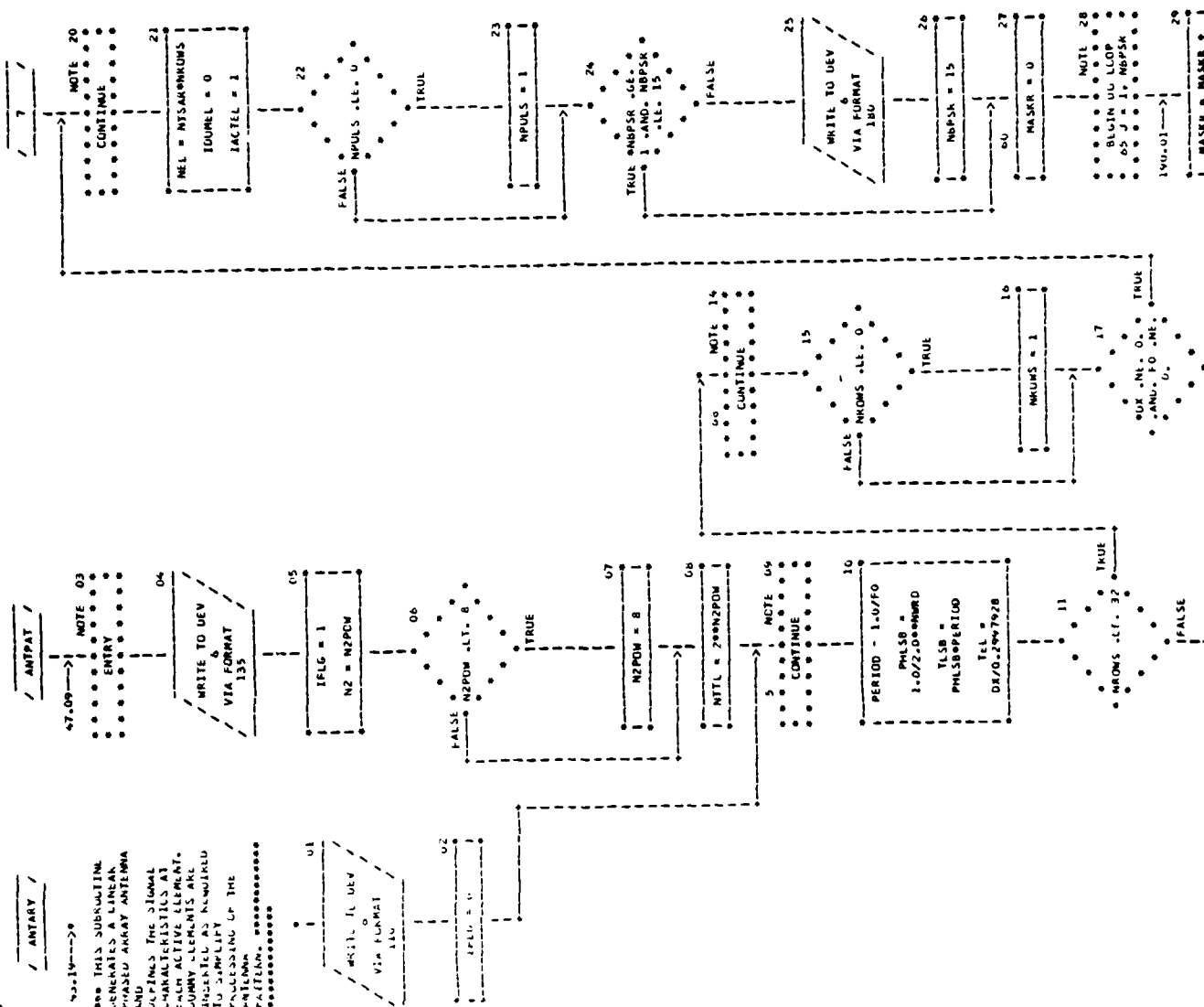
(B(184), NSR) , (B(186), IPY(1)) ,

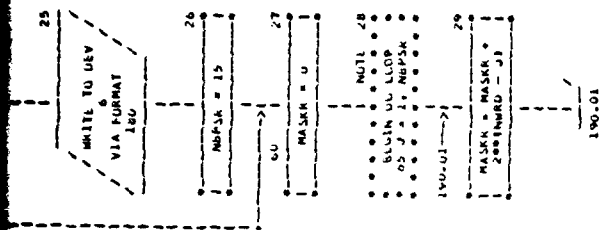
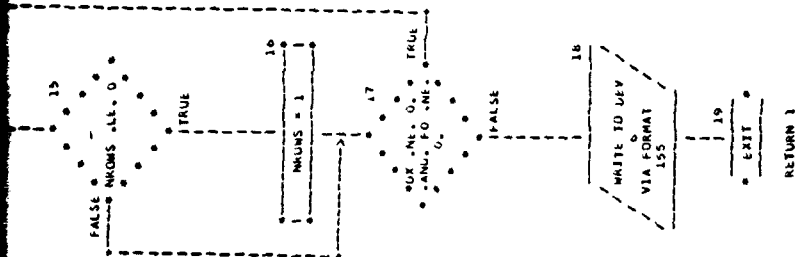
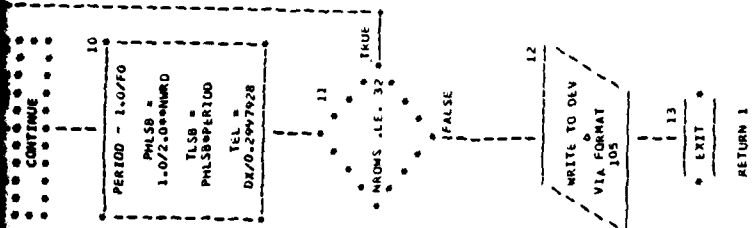
(B(194), CODE)

DIMENSION IPY(8),BCODE(13)

DATA BCODE/00,01,01,02,02,00,015,00,00,00,00,0312/,N1/1/

9-170

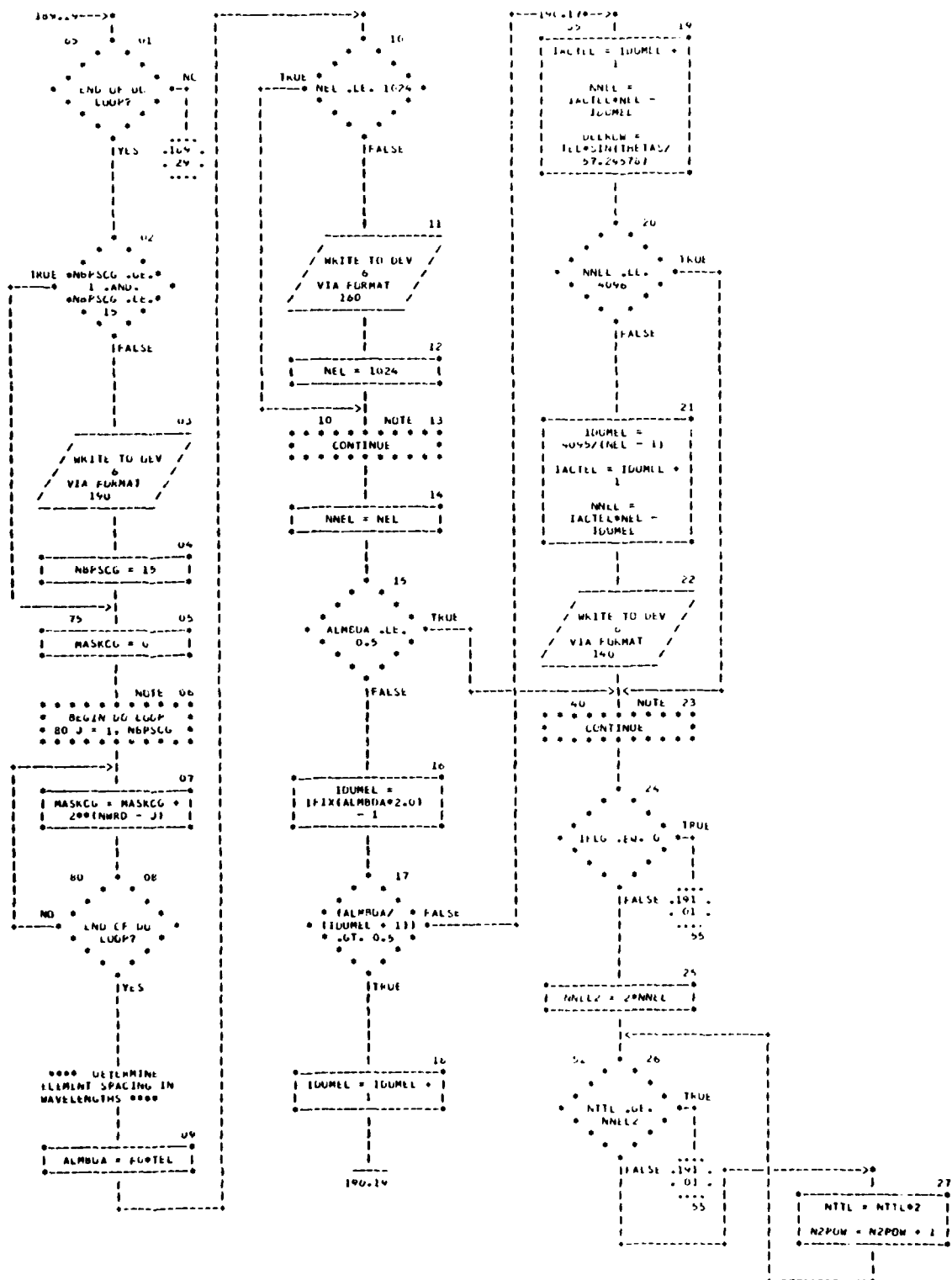




0. 24210

0. 24210 0. 24210 0. 24210 0. 24210

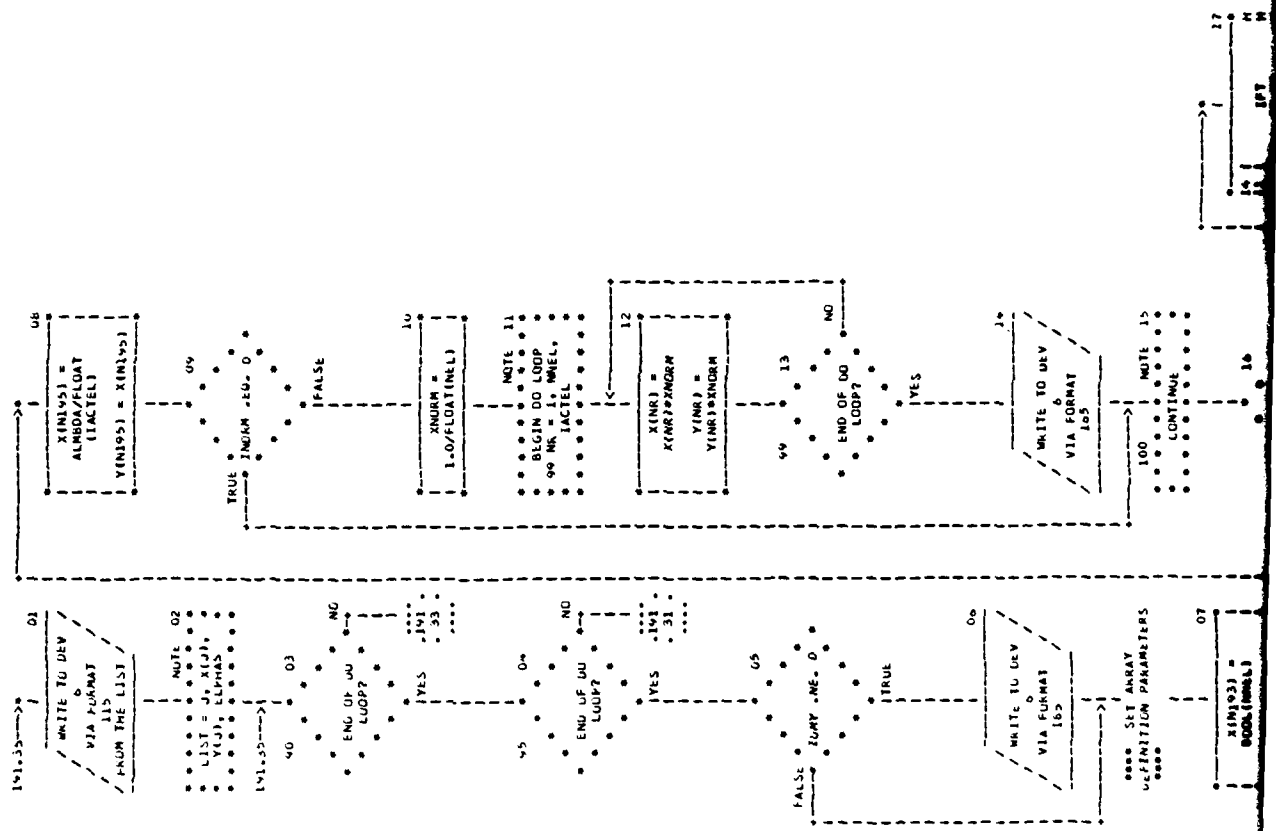
0. 24210 0. 24210 0. 24210 0. 24210



08/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE ANARRAY(V,*)



06/11/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

```

COMMON/BLK1/BLK1(400),TSKLOS(100)
DIMENSION X(1),Y(1),PHROW(32)

EQUIVALENCE (BK1( 3), FU           ), (BK1( 21), IDMY           ),
              (BK1( 76), NTSAR      ), (BK1( 77), UA             ),
              (BK1( 76), THETAS     ), (BK1( 79), NKUNS           ),
              (BK1( 80), NBPSG      ), (BK1( 81), INPSCG          ),
              (BK1( 82), NBPSR      ), (BK1( 83), INPSR           ),
              (BK1( 84), INURM      ), (BK1( 85), NPULS          ),
              (BK1( 1), NZPCW       )

DATA NMRD1,NMRD1/31.30/PI2/6.2831853/
DATA N1V3,N1V4,N1V5,N1V6/-3,-2,-1,0/

105  FORMAT (' NUMBER OF ROW CONTROL PHASE SHIFTERS EXCEEDS MAXIMUM. P
        ROBLEM TERMINATED. ')

110  FORMAT(1H1//50X,'* * * * * ANTENNA ARRAY GENERATOR * * * * *')
115  FORMAT(' ',I4,' X(IJ)=',E12.6,' Y(IJ)=',E12.6,' ELPHAS=',F10.6)
120  FORMAT(' ',T4,' FREQUENCY-GHZ = ',E12.6,T36,' POINT ANGLE DEG = '
        ,F6.3,T68,' NR PSHIFT ROWS = ',I2,T100,' NK TIMSCAN SECS = ',I4 /
        ' ',T4,' START PULSE NR = ',I4,T36,' ACT ELEM SPC-MTR= ',E12.6,T68
        , ' NK BITS PSHIFTER= ',I2,T106,' NK BITS CUNGEN = ',I2 / ' ',T4,
        ' NK ACTIVE ELEM = ',I4,T36,' ACT EL SPC-MVLTH= ',E12.6,T68,
        ' PSHIFTER MASK = ',O12,T100,' CONTR GEN MASK = ',O12 / ' ',T4,
        ' TOTAL NR ELEM = ',I4,T68,
        ' PS RNDOFF CONTR = ',I1,T100,' CGEN RNDUFF CUNT= ',I1 / T4,
        ' NORMALIZE CONTR = ',I1)

125  FORMAT(' ',T4,' DELTA ROW(INTEG)= ',I10,T36,' INIT ROPH(INTEG)= ',
        I10,T68,' DELTA CG (INTEG)= ',I10,T100,' INIT CGPH(INTEG)= ',I10/
        ' ',I4,' DELTA ROW (OCT) = ',O12,T36,' INIT ROPH (OCT) = ',O12,T68,
        ' DELTA CG (OCT) = ',O12,T100,' INIT CGPH (OCT) = ',O12 / )

130  FORMAT('1',52X,' ROW PHASE-SHIFTER SETTINGS'//T44,' ROW',18X,
        ' PHASE SETTINGS',/(T45,I2,T56,IPE15.7))

145  FORMAT(1H ,T43,I4,T56,IPE15.7)

151  FORMAT(1H0,50X,' CONTROL GENERATOR PHASE OUTPUT'//T42,' SECTION',10X
        ,O2,' SECTION',16X,' PHASE SETTINGS'//)

155  FORMAT(1H1//44X,'* * * * * PHASED ARRAY PATTERN GENERATOR * * * * *'
        //)

160  FORMAT(' INCOMPLETE PLOTTING DATA IS AVAILABLE DUE TO ARRAY SIZE L
        IMITS'// ' ANY PLOT PROVIDED WILL NOT INCLUDE ALL VISIBLE SPACE. ')

165  FORMAT(1H ,I4,' DUMMY ELEMENTS HAVE BEEN INSERTED BETWEEN ACTIVE E
        LEMENT PAIRS IN ORDER TO INCREASE AVAILABLE'// ' PLOTTING DATA. ')

175  FORMAT (' ELEMENT SPACING (LX) AND/OR CENTER FREQUENCY (FO) HAS NO
        T BEEN PROPERLY SPECIFIED. PROBLEM TERMINATED. ')

180  FORMAT(' NUMBER OF ANTENNA ELEMENTS EXCEEDS ARRAY LIMITS (1024)'
        NEL SET TO 1024. ')

185  FORMAT (' THE OUTPUT ARRAY HAS BEEN NORMALIZED TO THE NUMBER OF AC
        TIVE ARRAY ELEMENTS. ')

195  FORMAT (1H1,42X,' OUTPUT ELEMENTS (PRIOR TO ANY NORMALIZATION)'//)

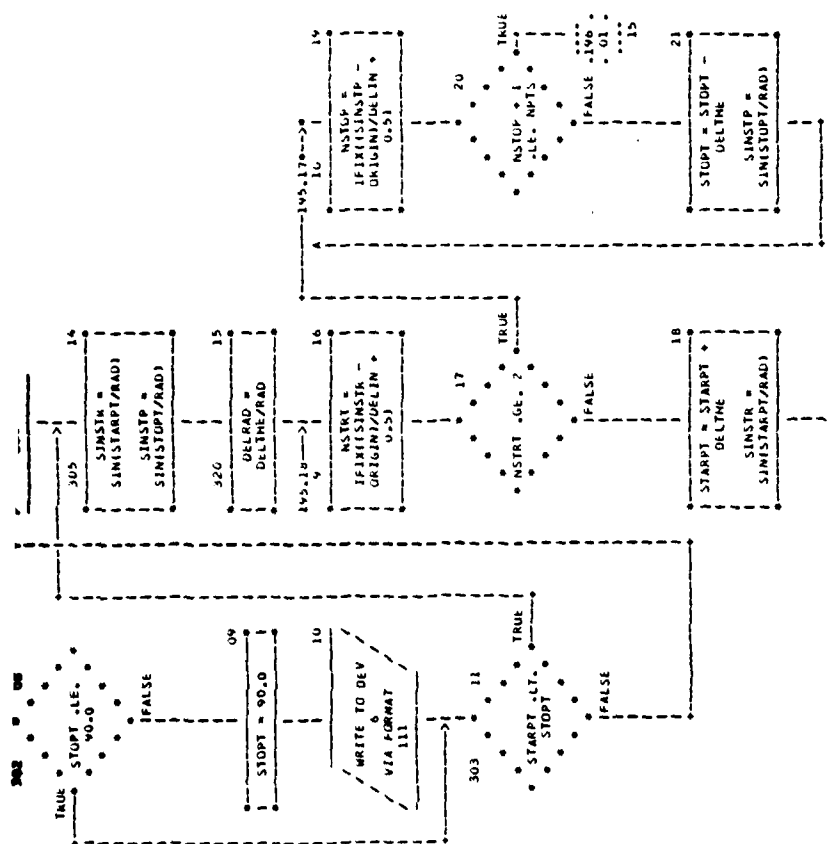
200  FORMAT(' NUMBER OF BITS IN ROW CONTROL PHASE SHIFTER IS EXCESSIVE'
        NBPSR HAS BEEN SET TO 15. ')

205  FORMAT (1H1)

210  FORMAT (' NUMBER OF BITS IN CONTROL GENERATOR IS EXCESSIVE' NBPSG
        G HAS BEEN SET TO 15. ')

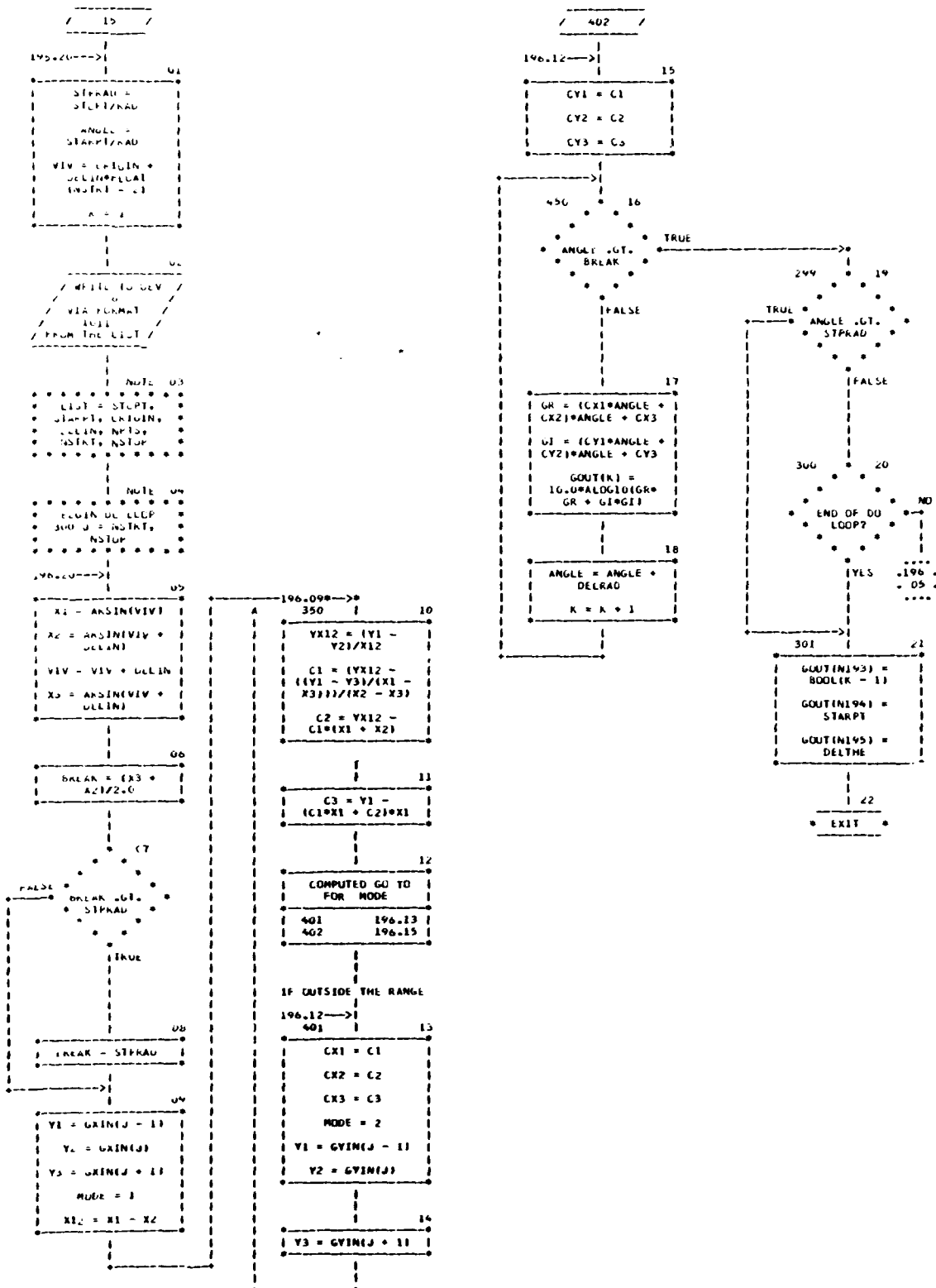
```

9-174



AUTOFLUX CHART SET - FMO/SCL RAUSIM

CHART TITLE - SUBROUTINE PLTINT(LXIN,GYIN,GOUT,*)



06/11/79

CHART TITLE - NON-PROCEDURAL STATEMENTS

```

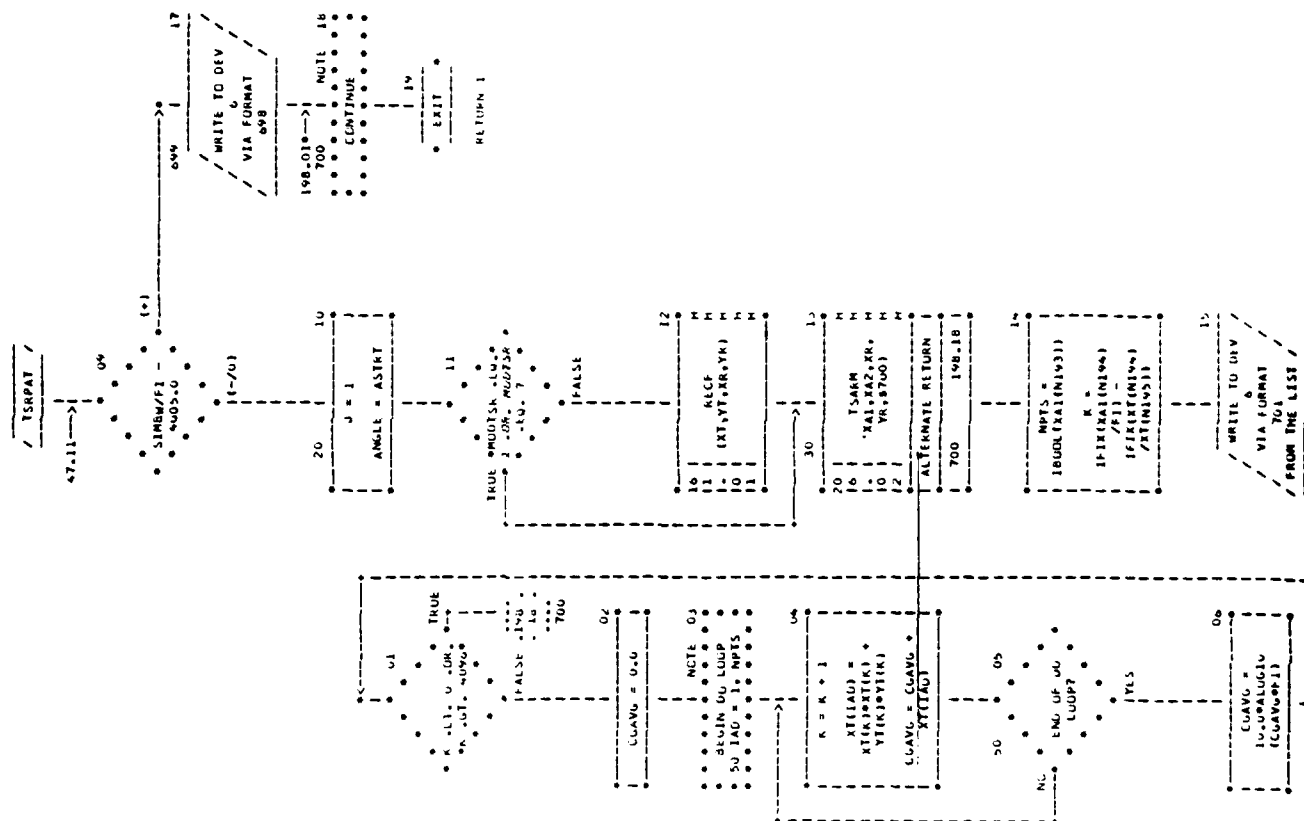
COMMON/BLK1/BK1(500)
DIMENSION GXIN(1),GYIN(1),GOUT(1)
EQUIVALENCE (BK1( 21), IDMY ), (BK1( 33), DELTHE ),
              (BK1( 34), STARPT ), (BK1( 35), STOPI )

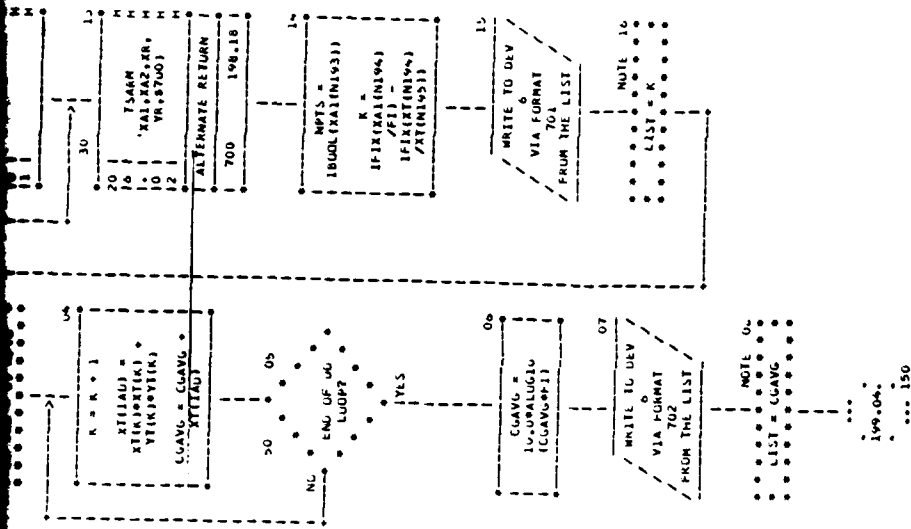
DATA N193,N194,N195,RAD/-3,-2,-1,57.29578/
114  FORMAT('OAN ANGLE INCREMENT WAS NOT PROPERLY SPECIFIED FOR THE OUT
      PUT ARRAY. EXECUTION WILL NOT BE ATTEMPTED.')
100  FORMAT('OSTART POINT WAS DEFINED BELOW HORIZON. START POINT HAS B
      EEN REDEFINED TO -90 DEG.')
111  FORMAT('OSTOP POINT WAS DEFINED BELOW HORIZON. STOP POINT HAS BEE
      N REDEFINED TO 90 DEG.')
109  FORMAT('OSTARTING POINT SPECIFIED AS GREATER THAN OR EQUAL TO END
      POINT. ALL AVAILABLE VISIBLE SPACE WILL BE INTERPOLATED.')
1011 FORMAT(1H ,4E15.7,3I10)

```

CHAR# TITLE - SUBROUTINE TSRPAT(X,Y,XA1,XA2,XR,YR,*)

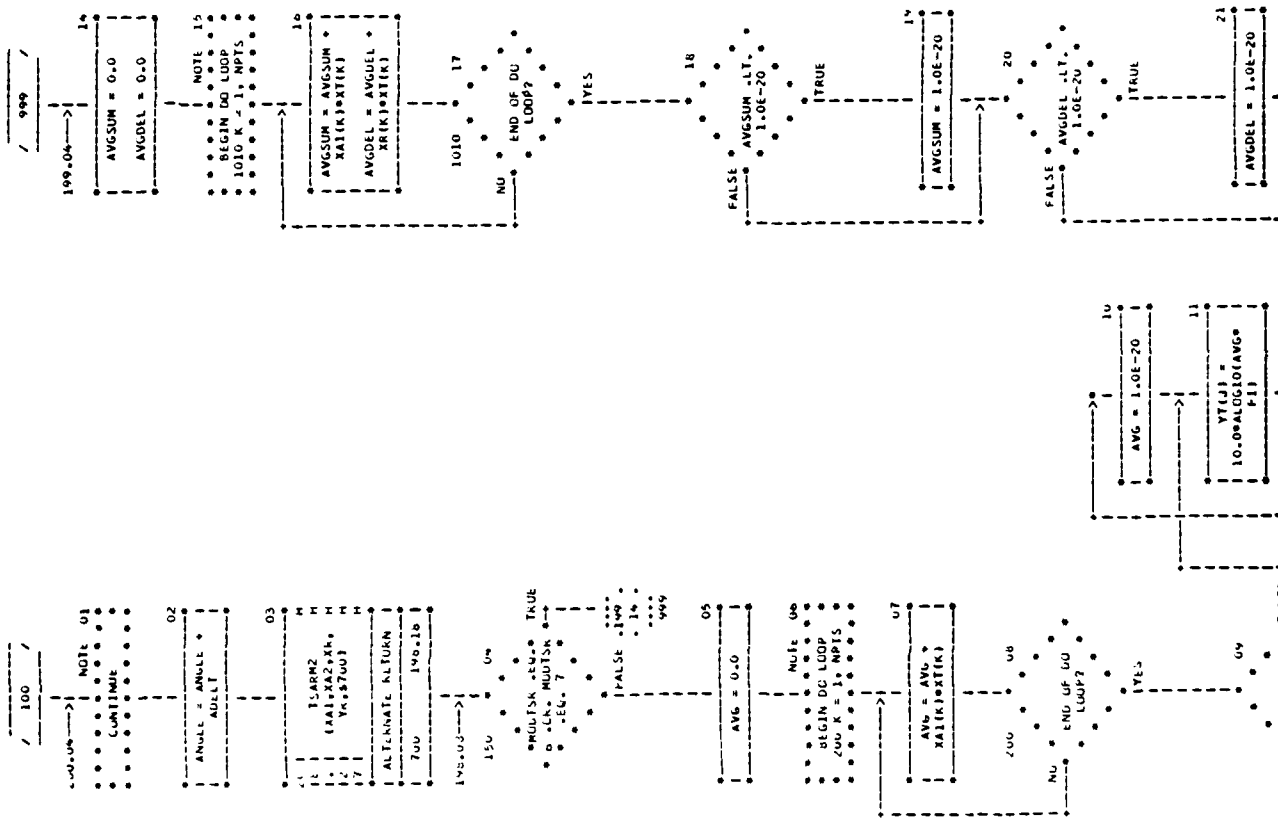
Q-178

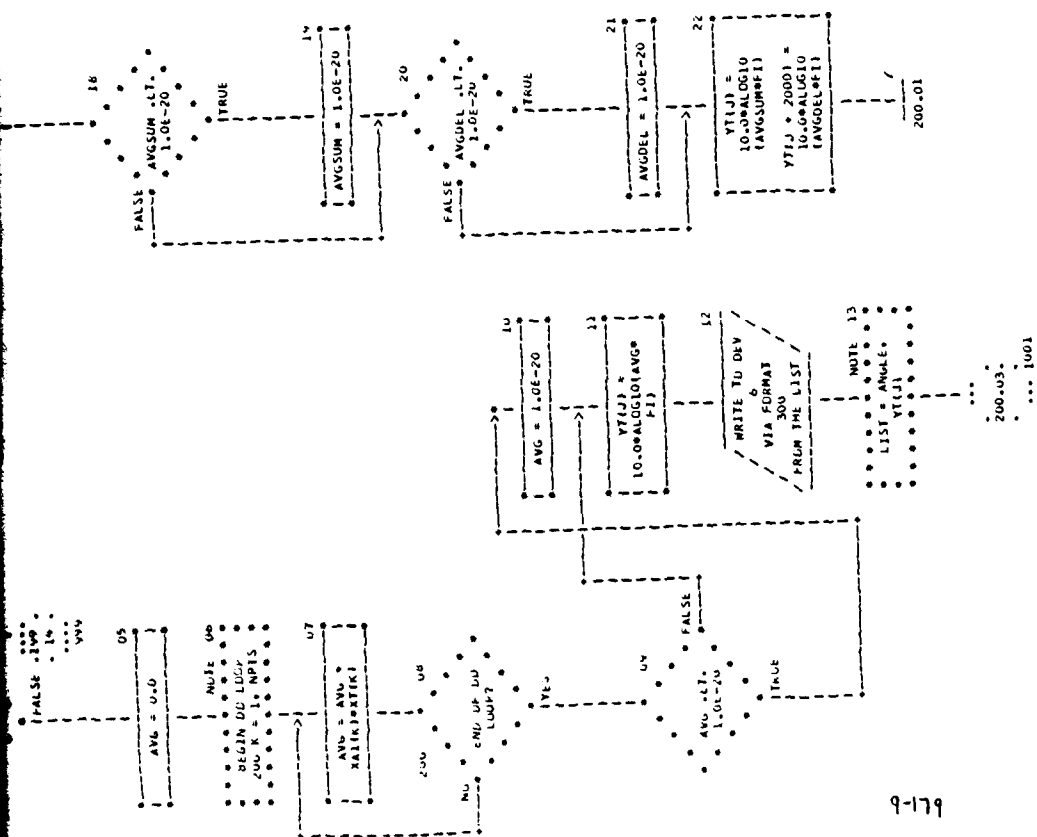




AUTOFLOW CHART SET - FWD/SCL RADSIM

CMANT TITLE - SUBROUTINE ISKPAT(XI,VT,XA1,XA2,XR,YR,0)



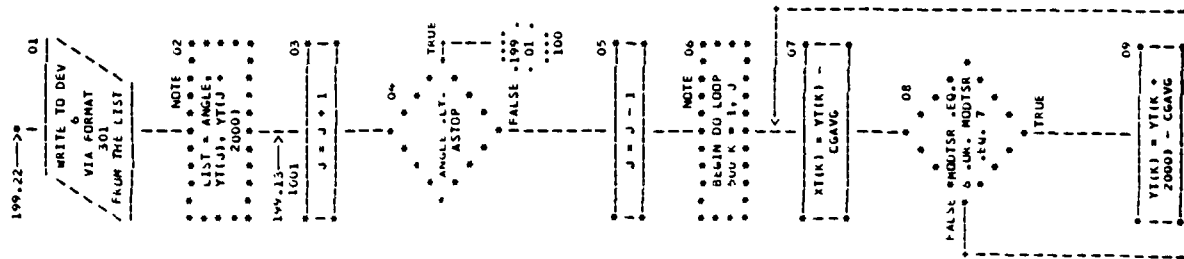


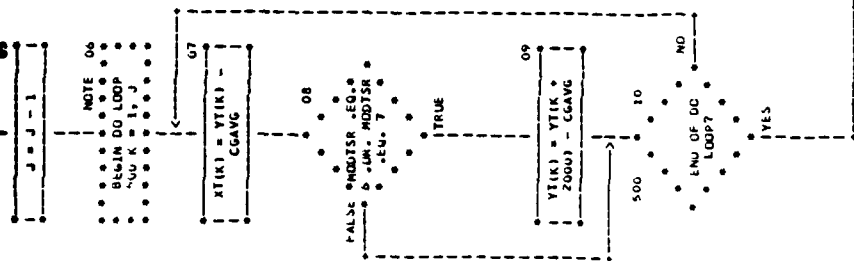
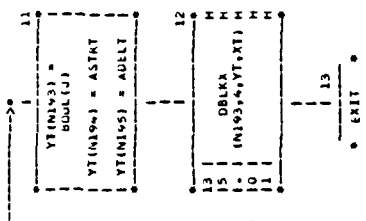
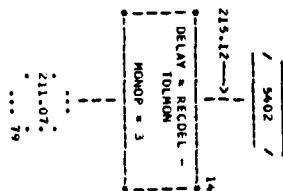
04/11/75

AUTOFLOW CHART SET - FMO/SCL RADSIM

CHART TITLE - SUBROUTINE TSAPAT(XT,YT,XA1,XA2,NR,YR,*)

9-180





NOTE 06
 BEGIN DO LOOP
 GO K = 1, J

CHART TITLE - NEN-PROLOGICAL STATEMENTS

```

COMMON/BLK1/ BK1(500)

EQUIVALENCE ( BK1( 21), IDMY ),( BK1( 11), FI ),
( BK1( 57), ANGLE ),( BK1( 34), ASTRT ),
( BK1( 35), ASTOP ),( BK1( 33), ADJLT ),
, ( BK1( 4), SIMFW ),( BK1(110), MODTSR)

DIMENSION XT(1),YT(1),XA1(1),XA2(1),XA(1),YK(1)

DATA N193,N194,N195,N196/-5,-2,-1,0/

FORMAT( ' K=', I10)

FORMAT(' CGAVG=',E13.5,'WATT-NANOSECONDS IN DB')

FORMAT(1H , ' ANGLE=',E13.5, ' ENERGY=',E13.5)

FORMAT(' ANGLE=',F12.5,'SUM ENERGY=',F12.5,
' DEL ENERGY=',F12.5)

FORMAT(' THE REQUIRED NUMBER OF FREQ. DOMAIN SAMPLES',
' EXCEEDS 4005')

```


NOTE: THIS IS A PSEUDO-CODE FOR THE PURPOSE OF ILLUSTRATION ONLY.

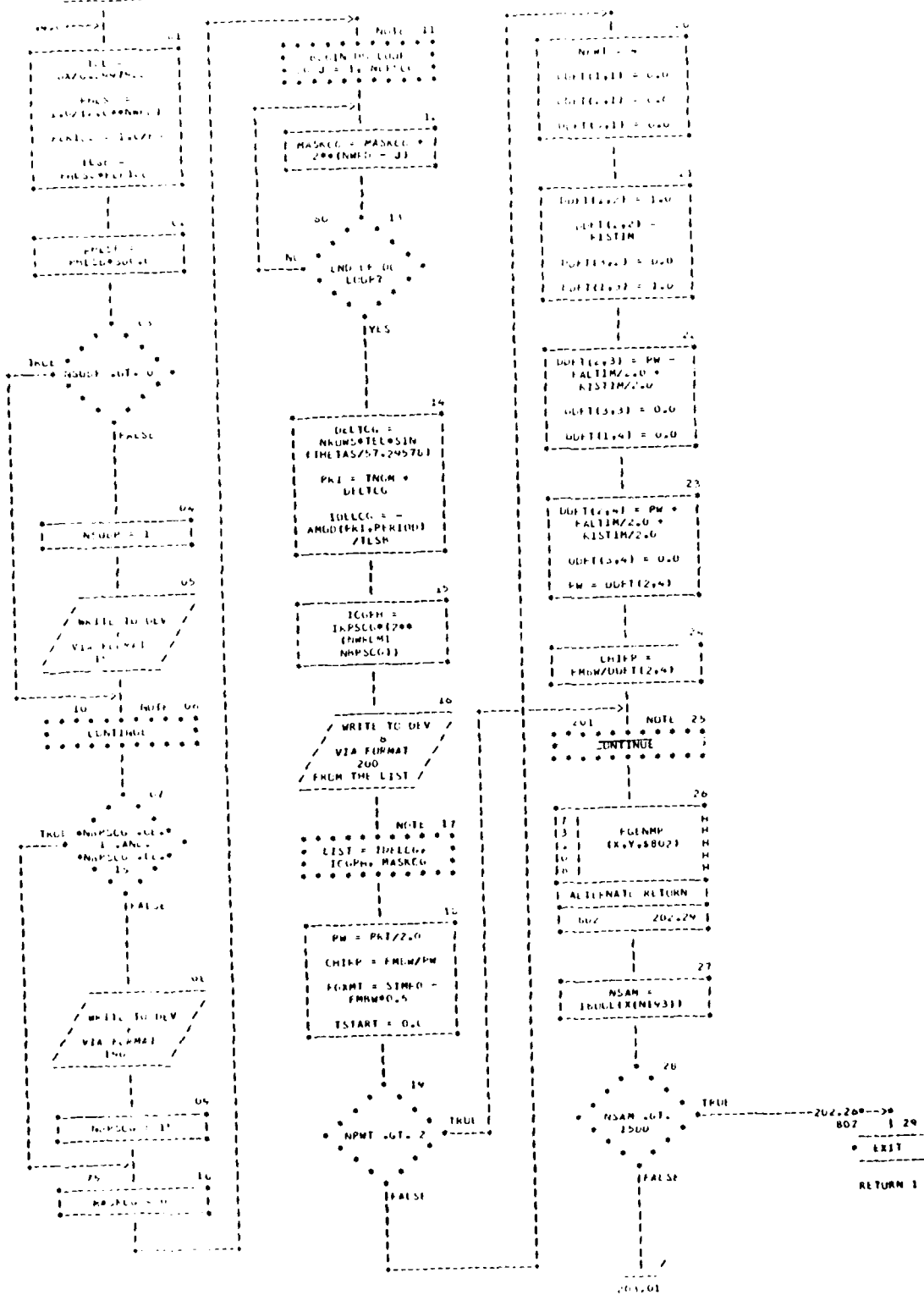
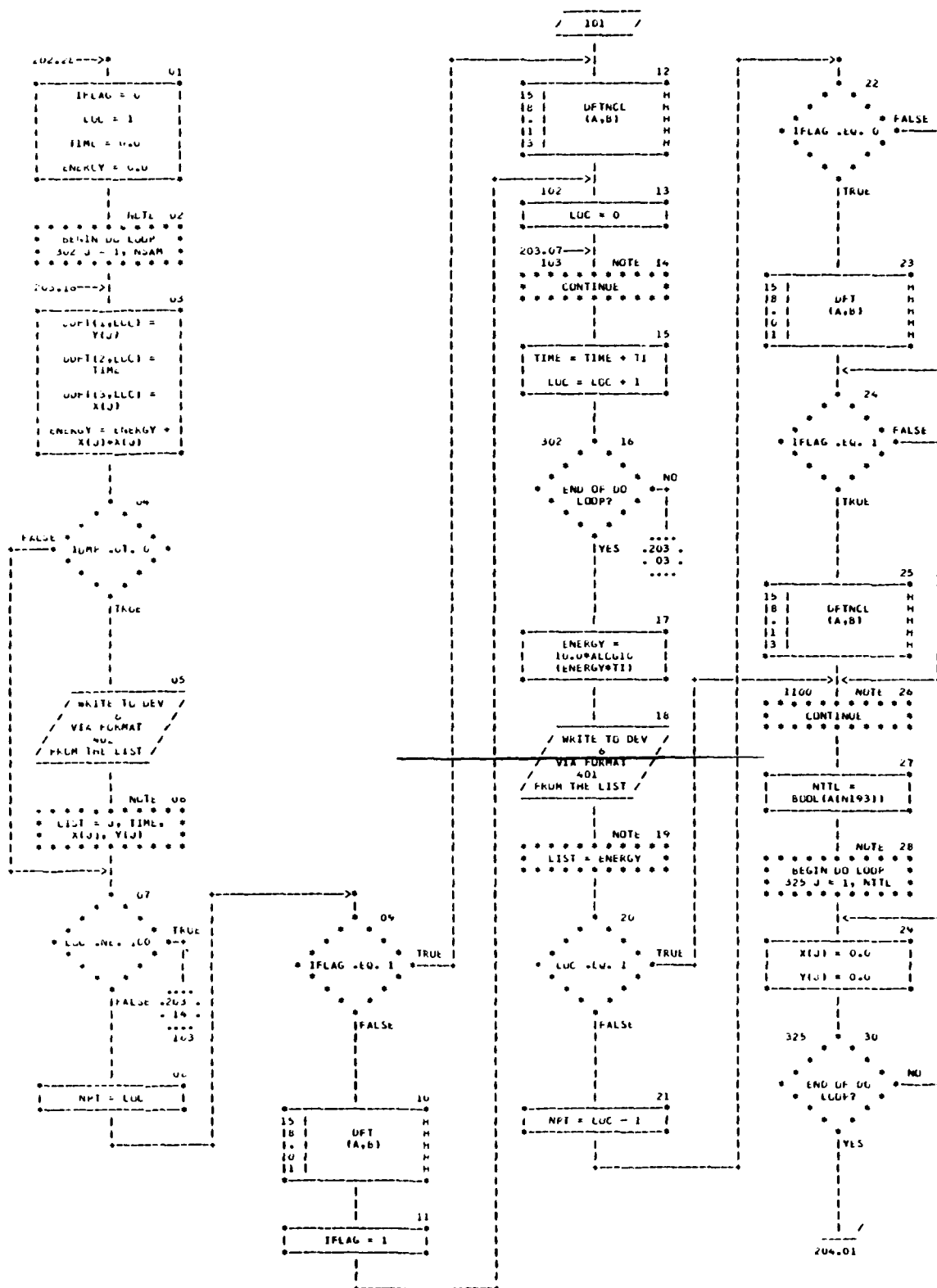


CHART TITLE - SUBROUTINE CGENIX,Y,A,B,*)

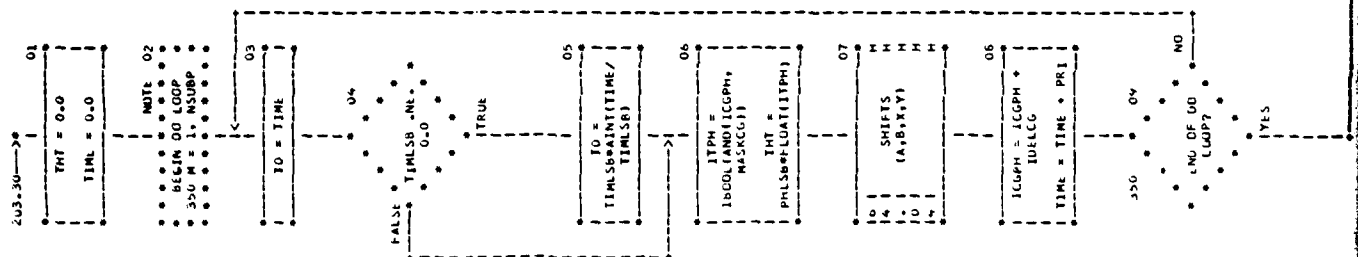


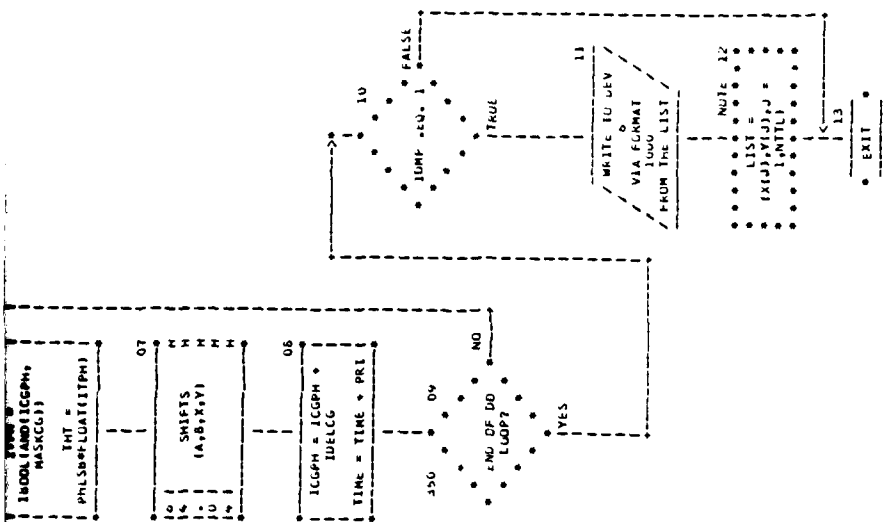
06/11/79

AUTOFLOW CHART SET - PMO/SCL RAUSIM

CHART TITLE - SUBROUTINE CUEIX,Y,A,B,01

9-184





06/11/75

AUTOFLUX CHART SET - FWD/SCL FWD/SIM

CHART TITLE - NON-PROCESSIONAL STATEMENTS

```

COMMON/BLK1/ BK1(200),DUFF(3,100)
EQUIVALENCE (FU ,BK1( 3)),(SIMFU ,BK1( 6)),(TI ,BK1( 12)),
(IX ,BK1( 77)),(THETAS,BK1( 76)),
(NROWS ,BK1( 79)),(NBPSG,BK1( 80)),(IKPSCG,BK1( 81)),
(NSUBP ,BK1( 88)),(TNLM ,BK1( 89)),
(PW ,BK1( 90)),(FOXMT ,BK1( 91)),(CHIRP ,BK1( 92)),
(FMEW ,BK1( 93)),(NPMI ,BK1( 94)),(TSTART,BK1(100)),
(TO ,BK1(120)),(THI ,BK1(121)),(NPT ,BK1(200))
(KRISTIM,BK1( 98)),(FALTIM,BK1( 99)),(IDIMP,BK1( 21))
, (TIMLSP,BK1(115)),(INCEM ,BK1(9))
DIMENSION X(1),Y(1),A(1),E(1)
DATA 1.193,NI44,NI45,NI46/-3,-2,-1,0/
DATA NWRD,NWRDUM1/31,30/,C/2.1474636104/
FORMAT(1) NUMBER OF SUBPULSES WAS LESS THAN OF EQUAL ZERO.....NSUBP
OUT EQUAL TO 1.1)
FORMAT(1) THE NUMBER OF BITS IN CONTROL GEN PRASE SHIFTER SET TO 15
*)
FORMAT(1) IDELCGE=,C12,1 ICOPH=,C12,1 MASKCODE=,C12,1
FORMAT(1) J=,14,1 TIML=,C13,5,1 MAG=,C13,5,1 PRASE=,C13,5,1
FORMAT(1) ENERGY=,C13,5,1 WAIT-NAM=,C13,5,1
FORMAT(1) ,C13,5,1

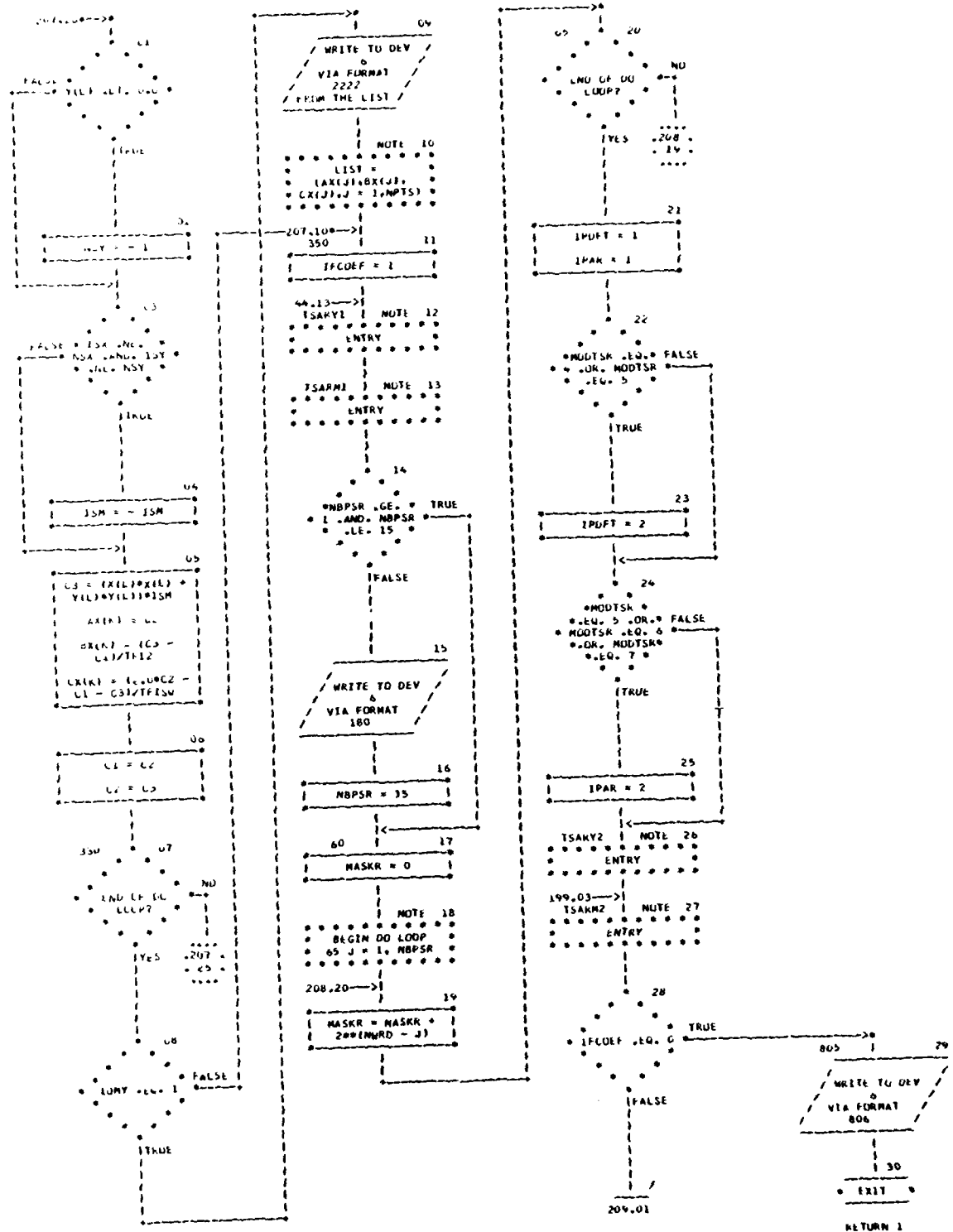
```

9-185

08/11/79

AUTOFLON CHART SET - FWD/SCL RADSIM

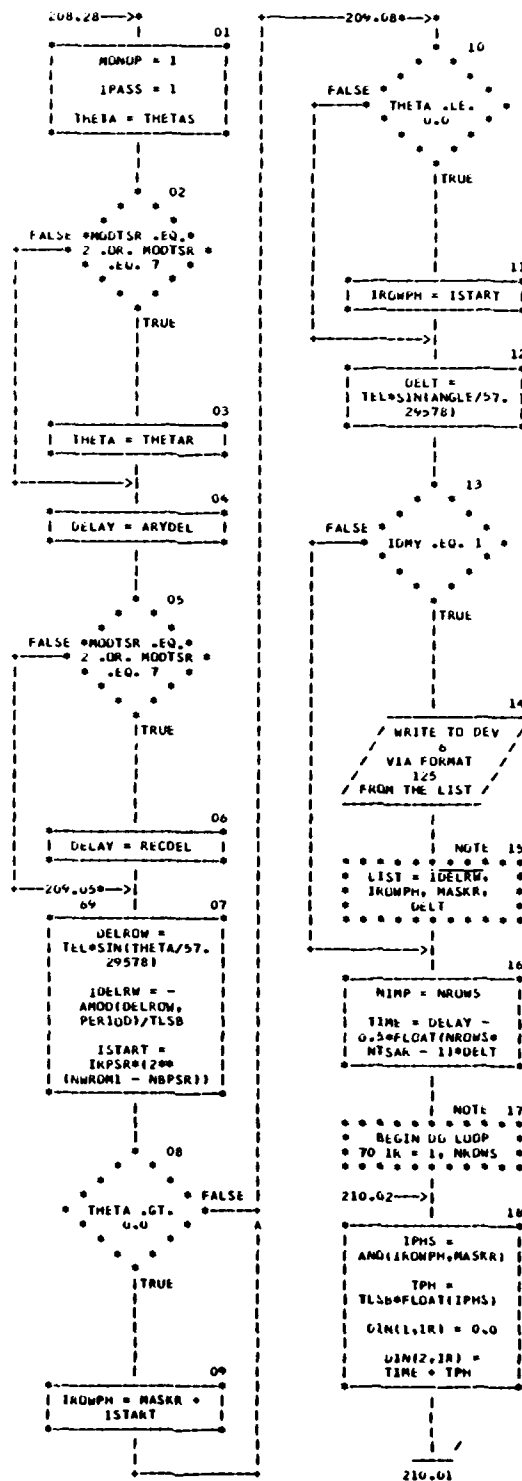
CHART TITLE - SUBROUTINE TSARY(X,Y,AR,YR,*)



08/11/75

AUTOFLOW CHART SET - FMU/SCL RADSIM

CHART TITLE - SUBROUTINE TSARY(X,Y,XR,YR,PI)



214-01

IF OUTSIDE THE RANGE
210-20 →
2110
DELAY = RECDL +
TOLMON
MUMUP = 2

211-07
... 79

NOTE 16
BEGIN DO LOOP
76 J = 1, MOUT
...

17
X(J) =
X(J)X(J) +
Y(J)Y(J)

18
76
END OF DO
LOOP?

YES

215-12
... 5400

19
75
THETA = THETA
IPASS = 2

209-07
... 69

210-04 →
09
IPDFT .EQ. 1
TRUE

IF FALSE

10
IPASS .EQ. 1
TRUE

IF FALSE

11
CONV
(X,Y,RR,YR)

12
210-13
... 71

ITAE
05
UTKF
(A,V)

06
IPASS .EQ. 2
FALSE

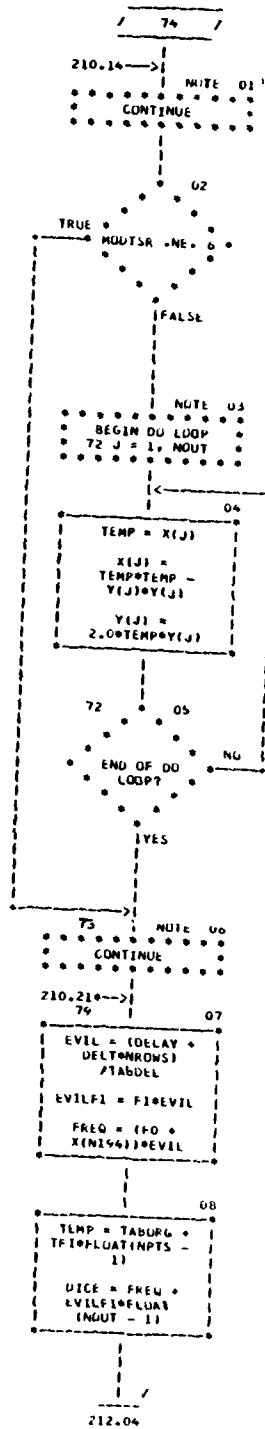
IF TRUE

07
UTNF
(X,Y,VN)

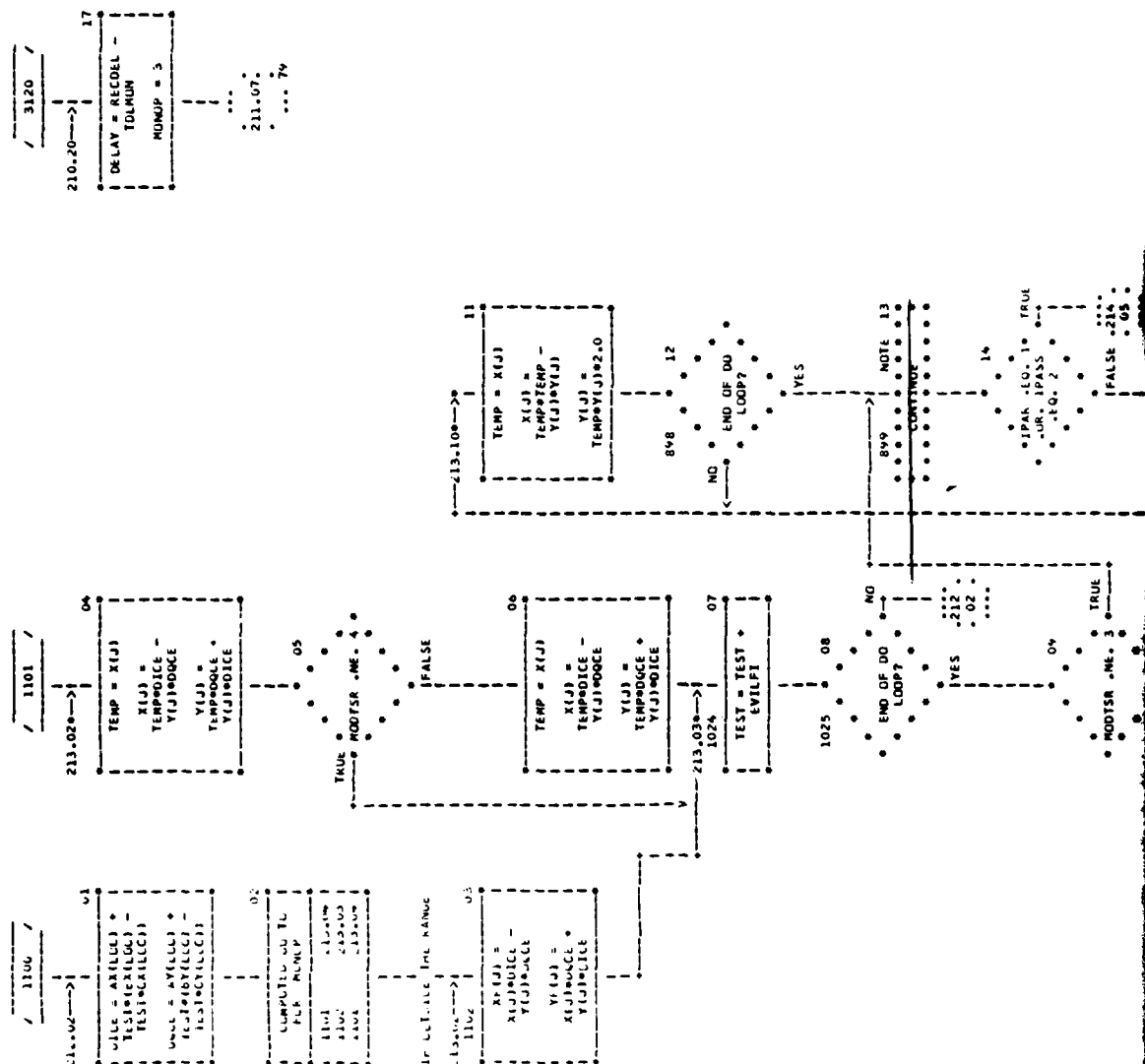
06/11/75

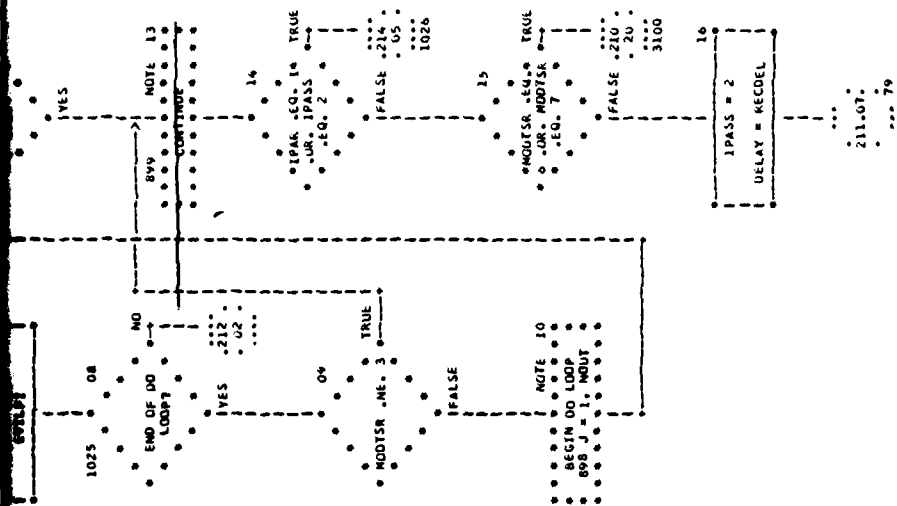
AUTOFLOW CHART SET - FWO/SCL RADSIM

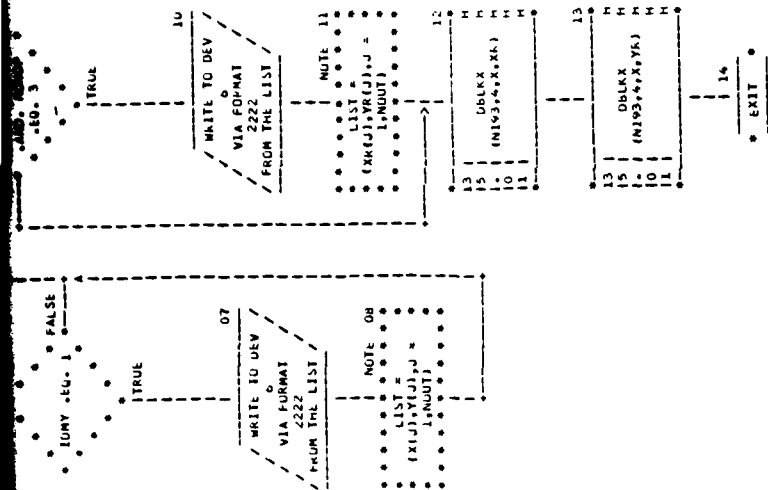
CHART TITLE - SUBROUTINE TSARKY(X,Y,XR,YR,*)



CART FILE - SUBROUTINE TSARY(X,Y,XR,YR,0)



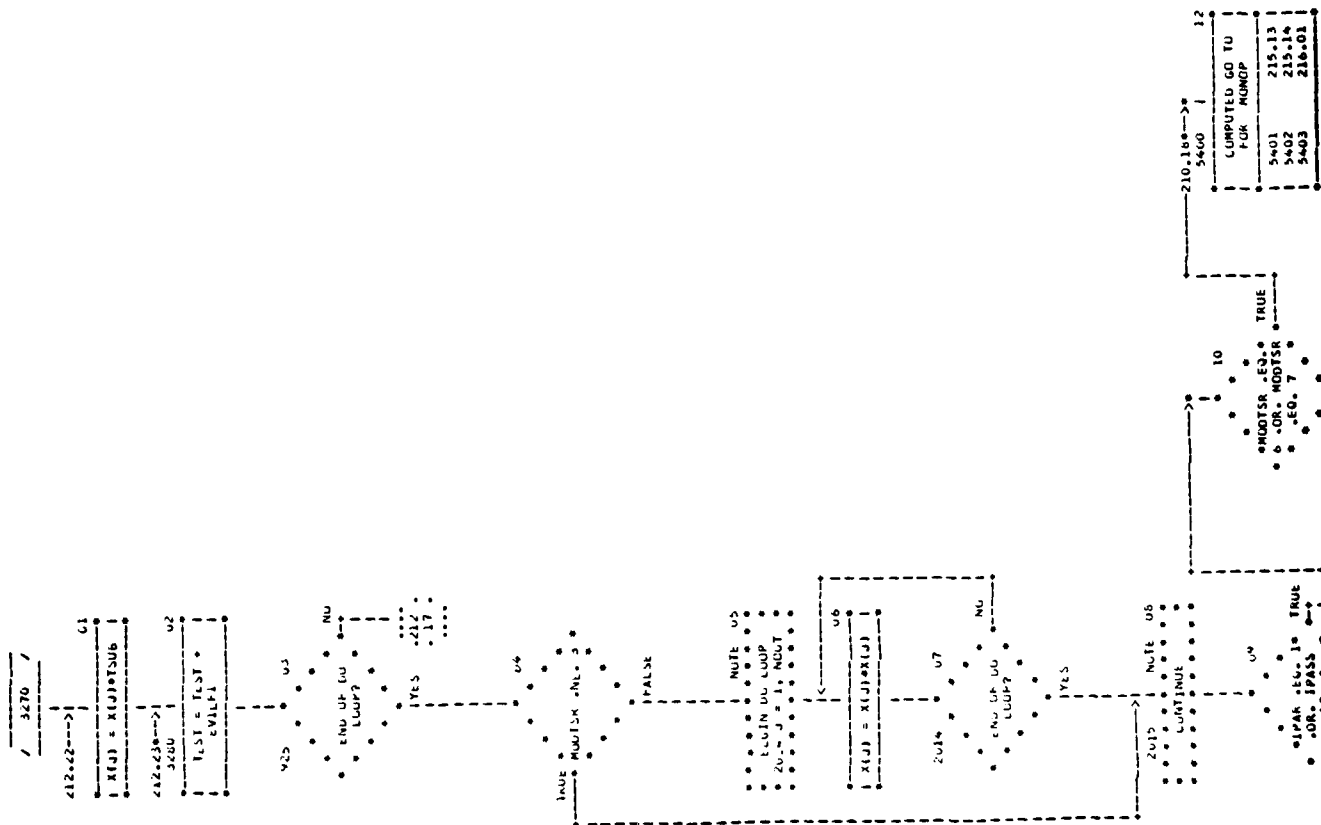


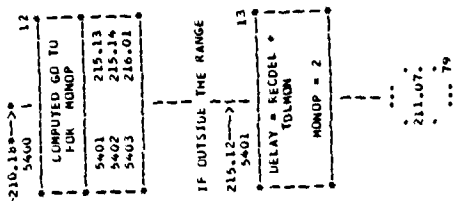
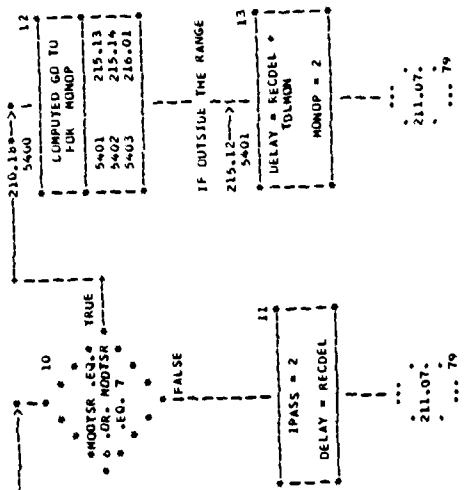
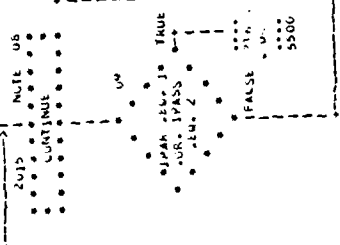
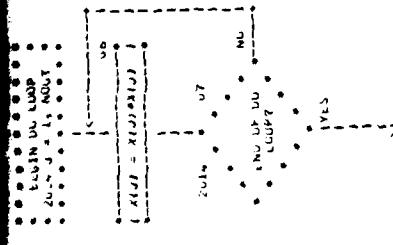


UN/11/75

CHART TITLE - SUBROUTINE TSARV12,Y,DR,VR,01

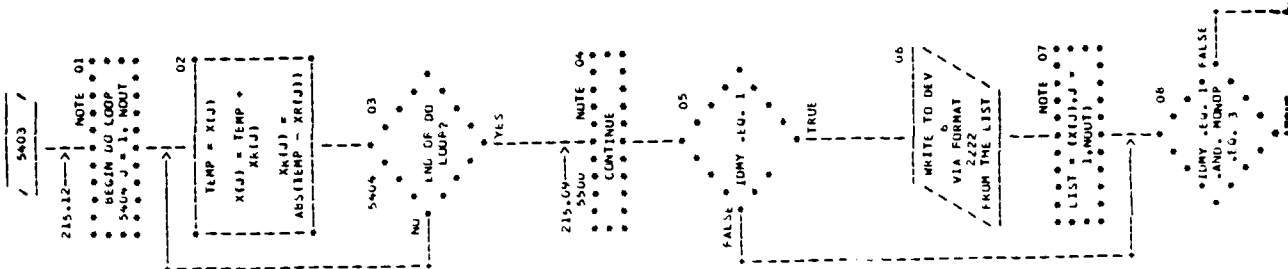
AUTOFLOW CHART SET - PHO/SEL RADSIM

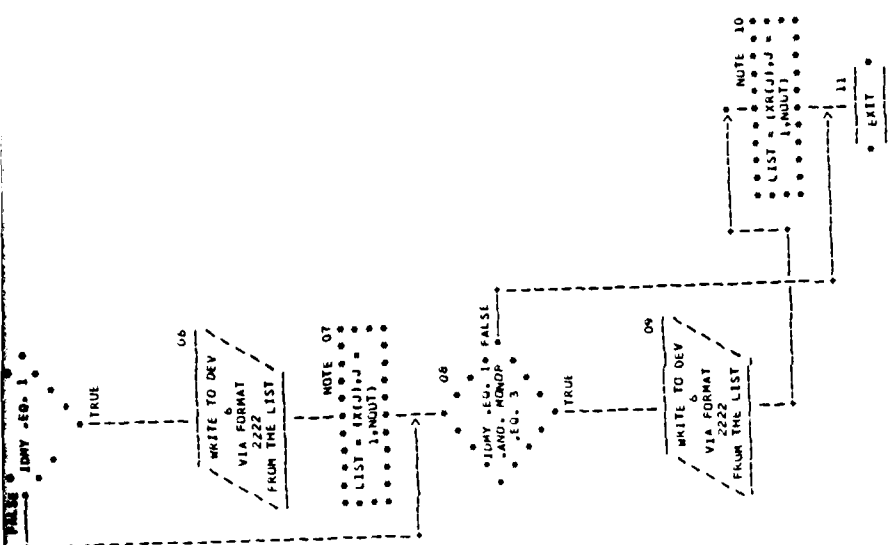




9-115

CHART TITLE - SUBROUTINE TSARY(X,Y,Z,X,Y,Z)





00/11/75

ARTICLE 117 CHART SET - PRO/SOL KADSIM

CHART 11111 - 100-PRINCIPAL STATEMENTS

```

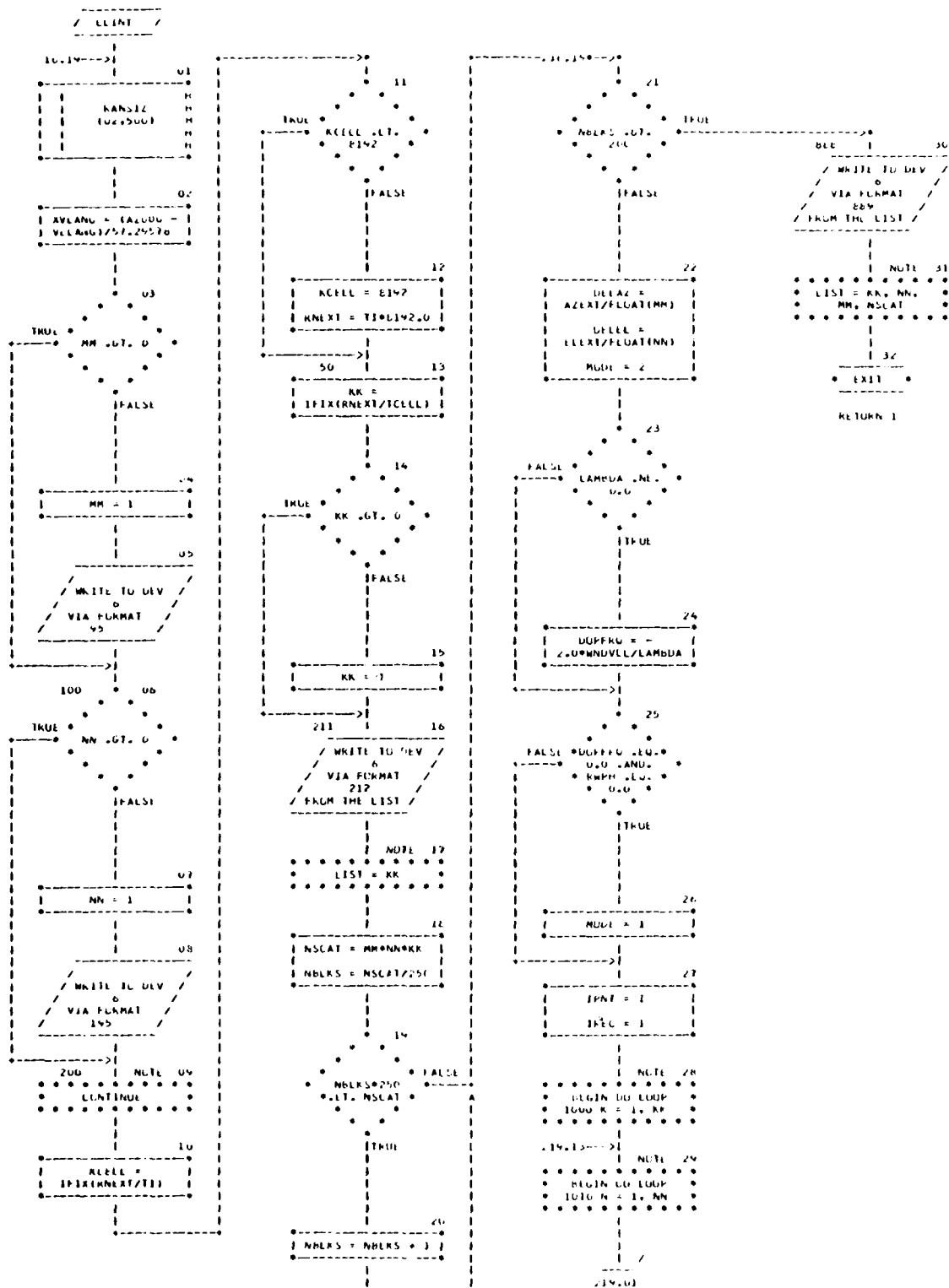
CUMMUN/6K1(200),DIN(5,100)
CUMMUN/6C0002/ AX(3000),EX(3000),X0UM(2147)
DIMENSION X(1),Y(1),CX(3000),AY(3000),PY(3000),CY(3000)
DIMENSION X6(1),Y6(1)
DIMENSION TSREF(100)
EQUIVALENCE (DIN(3,67),TSREF(1))
EQUIVALENCE (6K1( 3), F0 )
      (6K1( 11), F1 )
      (6K1( 21), IDMY )
      (6K1( 77), DX )
      (6K1( 79), NROWS )
      (6K1( 83), IREFS )
      (6K1( 85), FEXT )
      (6K1(200), NIMP )
      (6K1(117), RECDEL), (6K1(119), THETA),
      (6K1(116), HEADSR), (6K1(125), TELMCH)
      * ( INDM , 6K1( 4) )
DATA N193,N194,N195,NMFL,NMFLM1,IFCORF/-3,-1,-1,3,30,0/
FORMAT( THE MAXIMUM ALLOWABLE ANGLE (OFF ENDAUSIDE IS°,F15.7)
FORMAT( 6L20.6)
FORMAT( NUMBER OF BITS IN ROW CONTROL PHASE SHIFTER SET TO 15)
FORMAT( 10L10W,10L10, 10MPL,10L10, 10MPL,10L10, 10MPL,10L10,
      * 10L10,10L10,5)
FORMAT( 6L10,10L10,5)
FORMAT( 6L10,10L10,5)
FORMAT( 10L10,10L10,5)

```


06/16/75

ALGORITHM FOR THE CALCULATION OF THE

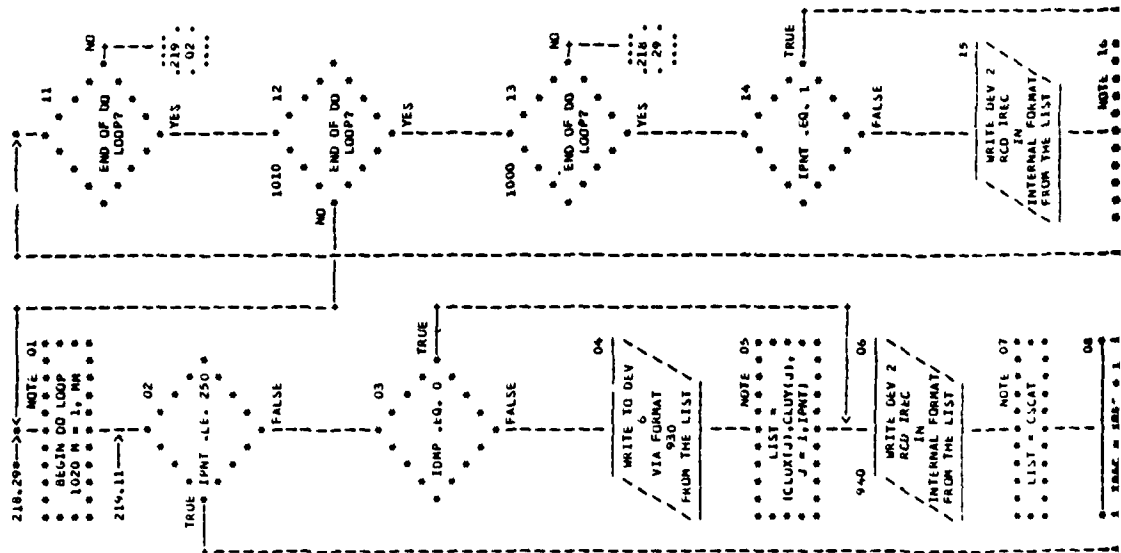
CHART TITLE = CALCULATING CCINTS



09/18/75

CHART TITLE - SUBROUTINE CLINT(0)

AUTOFLOW CHART SET - PMO/SCL RADSIM



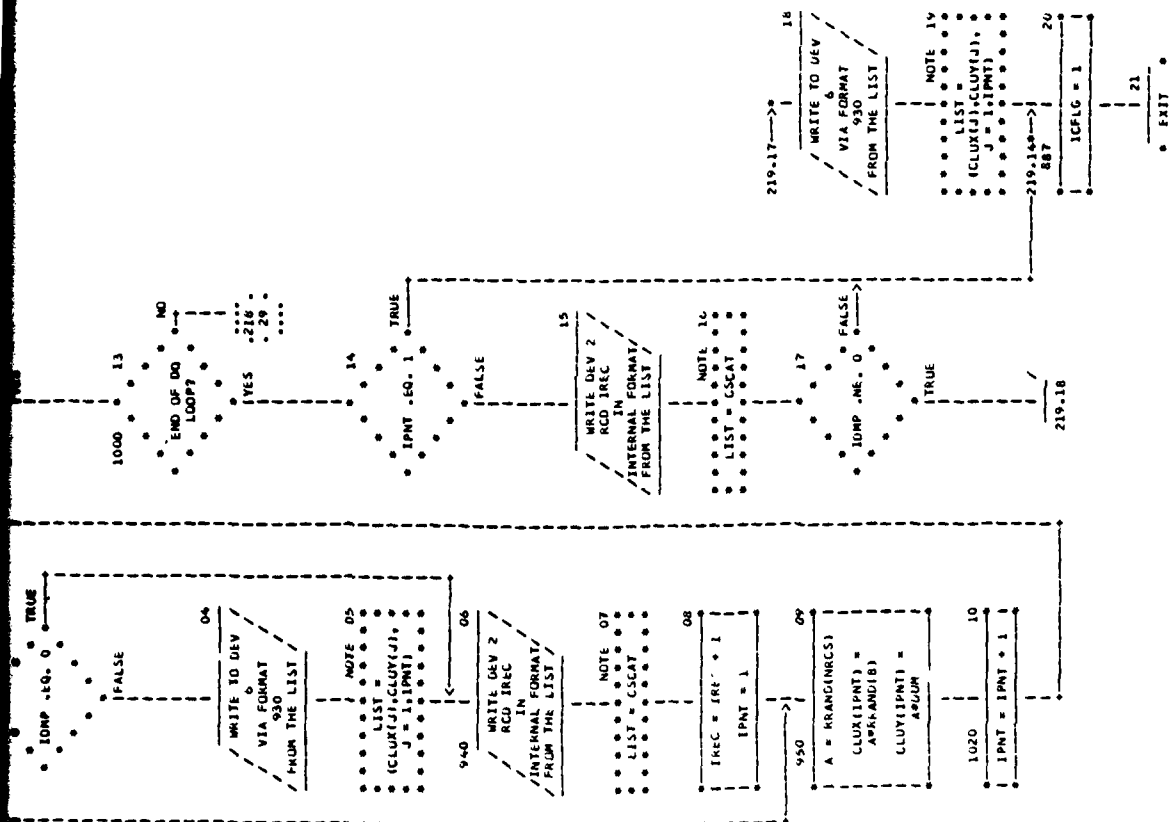


CHART TITLE - NUT-PRODUCTION STATEMENTS

9-200

```

COMMON/BLK1/ CLUX(250),CLUY(250)
COMMON/BLK2/ BK2(500)
COMMON/BLKENH/ IDMR(6),DUM
DIMENSION CSCAT(500)
EQUIVALENCE (CLUX(1),CSCAT(1))
EQUIVALENCE (BK2( 13), LAMBDA
              (BK2( 21), IDMP
              (BK2( 47), NRMPH
              (BK2( 49), WNUVEL
              (BK2( 51), RNEXT
              (BK2( 53), AZEXT
              (BK2( 55), MM
              (BK2( 57), ELGCG
              (BK2(120), KK
              (BK2(122), MODE
              (BK2(124), DELEL
              (BK2(126), ICFEG
              (BK2(128), KUELL
              (BK2( 14), ICELL
              (BK2( 46), NRCS
              (BK2( 48), RMPH
              (BK2( 50), VELANG
              (BK2( 52), RN000
              (BK2( 54), AZ000
              (BK2( 56), ELEFT
              (BK2( 58), NN
              (BK2(121), NBLKS
              (BK2(123), DELAZ
              (BK2(125), XVLANG
              (BK2(127), GUPFAQ
              (BK2( 12), TI )

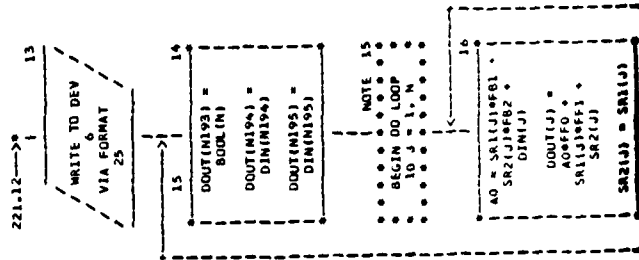
REAL LAMBDA
95  FORMAT(1H, ' THE VARIABLE MM HAS BEEN SET TO 1. ' )
100 FORMAT(1H, ' THE VARIABLE NN HAS BEEN SET TO 1. ' )
110 FORMAT(1H, ' THE VARIABLE KK HAS BEEN SET TO 1. ' )
120 FORMAT(1H, '0E20.0')
130 FORMAT(1H, ' THE PRODUCT OF KK=*,J=*, NR=*,14,*, MM=*,14,*, IS TOO
140 LARGER,*,110,*, THIS JOB WILL TERMINATE. ' )

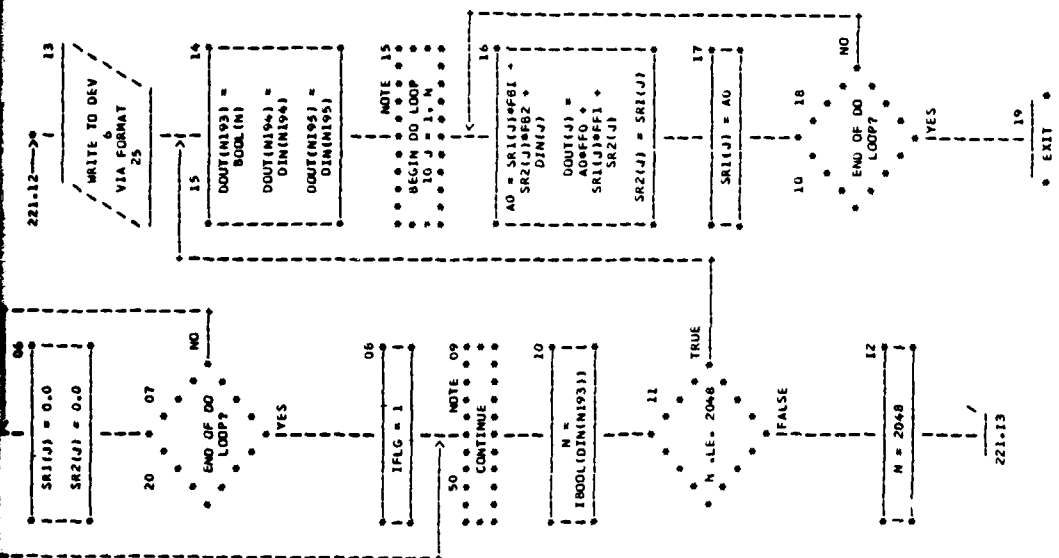
```

08/18/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - SUBROUTINE NTIFL(TOIN,DOUT)



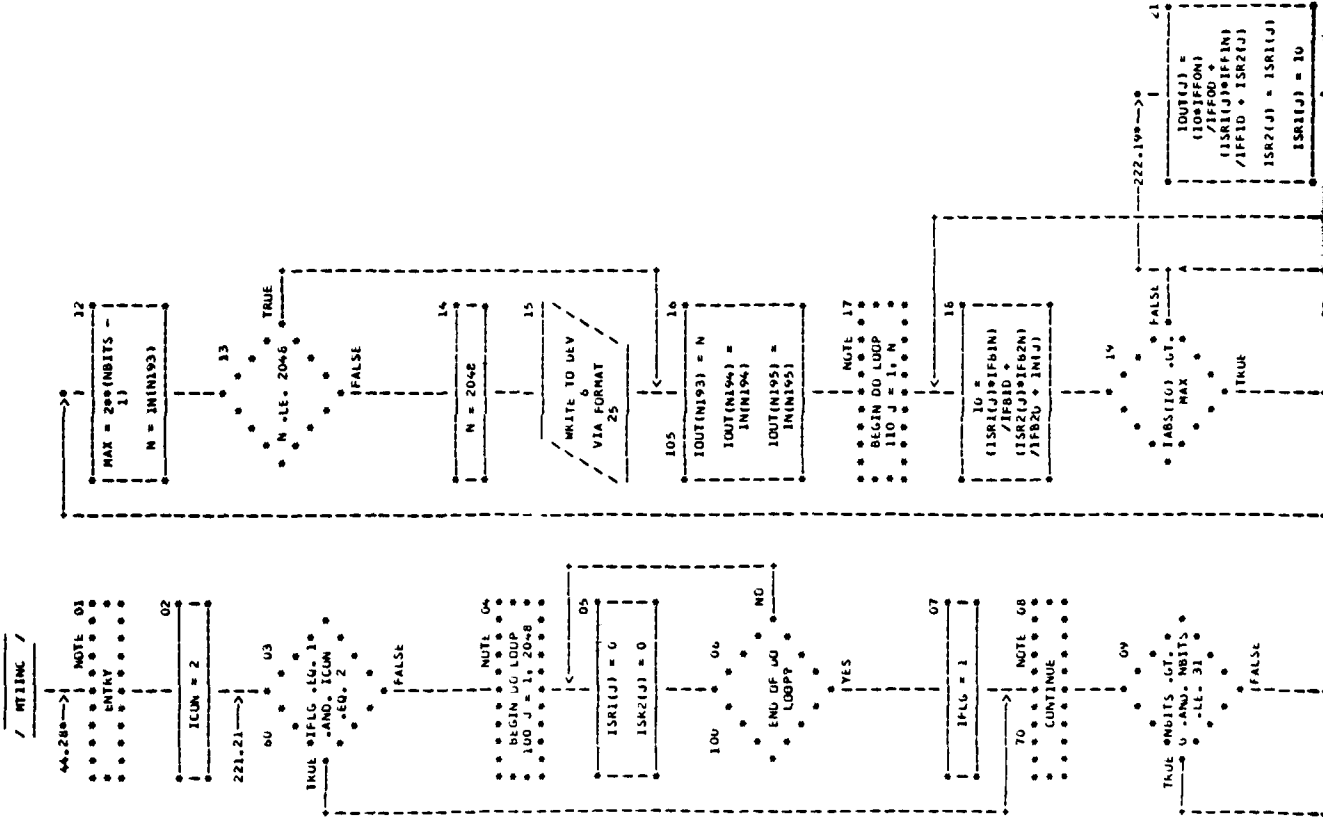


08/18/73

CHART TITLE - SUBROUTINE RTFLTDIN,DOOUT

9-207

AUTOFLOW CHART SET - FWD/SCL RADSIM



NOTE 17
 BEGIN DO LOOP
 110 J = 1, N

16
 (1SR1(J)*IFB1N)
 /IFB1D +
 (1SR2(J)*IFB2N)
 /IFB2D + IN(J)

14

ABS(IG) -GT-
 MAX
 IF TRUE
 IF FALSE

20
 10
 1SIGMA(MAX+IG)

222.198

21
 10UT(J) =
 (10R1PFOI)
 /IFPFOI +
 (1SR1(J)*IFF1N)
 /IFF1D + 1SR2(J)
 1SR2(J) = 1SR1(J)
 1SR1(J) = 10

22

110
 END OF DO
 LOOP?

YES

23

EXIT

YES

07
 IF LG = 1

70
 NOTE 18
 CONTINUE

09

TRUE AND ITS -GT-
 U -AND- NOT ITS
 -LE- 31

IF FALSE

10
 NOT ITS = 31

95
 NOTE 11
 CONTINUE

08/18/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

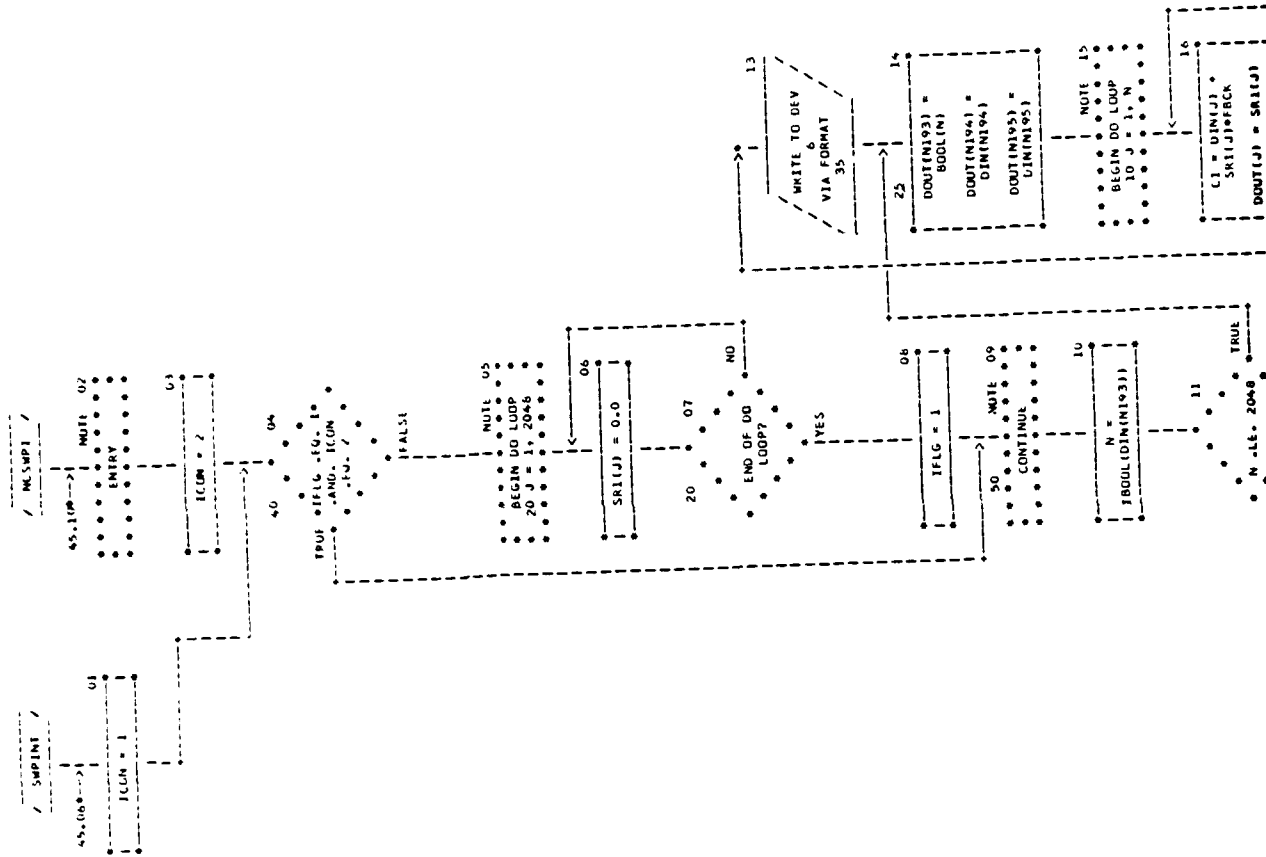
CHART TITLE - NON-PROCEDURAL STATEMENTS

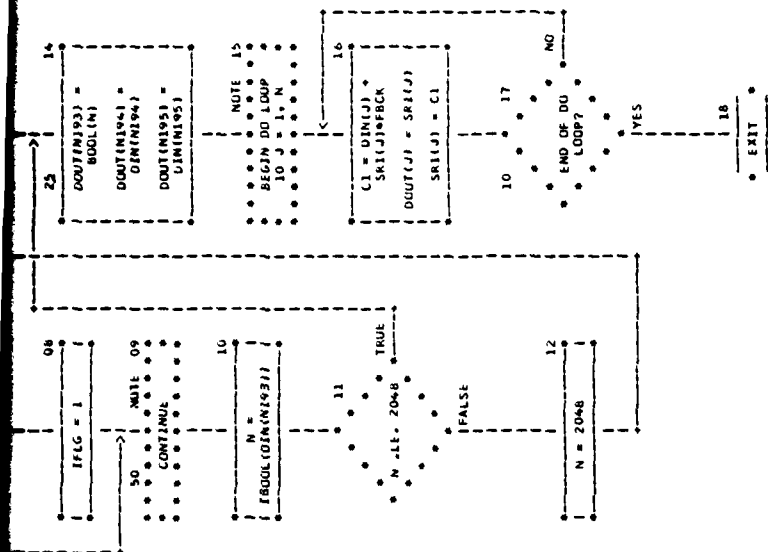
COMMON/BLK1/BK1(500)
DIMENSION DIN(1),DOUT(1),IN(1),ICUT(1),SR1(2048),SR2(2048),
ISR1(2048),ISR2(2048)
EQUIVALENCE (SR1(1),ISR1(1)), (SR2(1),ISR2(1))
DATA N193,N194,N195,N196/-3,-2,-1,0/
DATA IFLG/O/
EQUIVALENCE (BK1(21), IDMY), (BK1(68), FFO),
(BK1(69), FFI), (BK1(70), FBI),
(BK1(71), FB2)
EQUIVALENCE (BK1(160), IFFON), (BK1(161), IFFOD),
(BK1(162), IFFIN), (BK1(163), IFFIO),
(BK1(164), IFBIN), (BK1(165), IFBIO),
(BK1(166), IFB2N), (BK1(167), IFB2D),
(BK1(169), NBITS)
25 FORMAT(' TOO MANY POINTS IN INPUT ARRAY...FIRST 2048 PROCESSED'

08/18/75

9-204
CHART TITLE - SUBROUTINE SUPINT(DIM,DOUT)

AUTOFLOW CHART SET - FMO/SCC RADSIM





GENERAL DYNAMICS FORT WORTH TEX CONVAIR AEROSPACE DIV F/G 17/9
ENDO ATMOSPHERIC-EXO ATMOSPHERIC RADAR MODELING, VOLUME II, PAR--ETC(U)
JUN 76 R J HANCOCK, F H CLEVELAND F30602-73-C-0380

RADC-TR-76-186-VOL-2-PT-2 NL

AOA
104788

DATE _____

၇၆-၇၇

DTIC

08/16/75

AUTOFLOW CHART SET - FWD/SCL RADSIM

CHART TITLE - NON-PROCEDURAL STATEMENTS

```
COMMON/BLK1/BK1(500)
DIMENSION DIN(1),DOUT(1),SR1(2048)
EQUIVALENCE (BK1( 21), IDMY      ), (BK1( 75), FBCK
DATA N193,N194,N195,N196/-3,-2,-1,0/
DATA IFLG/0/
35  FORMAT( ' TOO MANY POINTS IN INPUT ARRAY....FIRST 2048 PROCESSED' )
```

9-205

CHART TITLE - INTRODUCTORY COMMENTS

Chart Title - PROCEEDURES									
10003078	4.02	10003088	2.06						
10003081	4.06 2								
10003101	4.08	10003111	2.09						
10003111	4.09 3								
10003120	4.10 5	830	24.43						
10003133	4.11	10003144	2.12						
10003144	4.11 0								
10003151	4.116	10003161	2.13						
10003164	4.117 1014								
10003174	4.117	10003191	2.18						
10003200	4.119 2000	10003441	10.23						
10003221	4.123 2003	10003271	2.21	10004271	10.11	10004071	24.30	10010431	25.10
10003221	4.124 1010	10003441	3.10	10003701	7.06				
10003441	3.012 1011	10004421	3.14						
10003441	3.014 1000	10003421	3.08						
10003453	3.015 1005	10003431	3.09						
10003471	3.016	10004361	3.16						
10003471	3.016 1530	10004441	3.04	10004381	3.14				
724	4.017 2015	10004521	4.04						
10004541	4.019 1020	10004531	4.05						
10004541	4.011 1025	10004541	4.06						
10004571	5.001 1030	10003591	5.09						
10004571	5.003 1055	10003601	5.10						
10004571	5.011 1030	10003551	5.05						
10004581	5.013 1035	10003561	5.06						
10004571	5.015 1040	10003571	5.07						
10004574	5.017 1045	10003581	5.08						
10004571	6.001 1000	10003651	6.09						
10004581	6.003 1005	10003661	6.10						
10004581	6.011 1000	10003611	6.05						
10004581	6.013 1005	10003621	6.06						
10004581	6.015 1070	10003631	6.07						
10004581	6.017 1075	10003641	6.08						
10010113	7.001 1740	10003711	7.11						
10010110	7.003 1745	10003721	7.12						
10010011	7.013 1090	10003671	7.07						
10010041	7.015 1095	10003681	7.08						
10010071	7.017 1730	10003691	7.09						
10004610	7.019 1735	10003701	7.10						

(000974)	5.17	1045	(000358)	5.08
(000975)	6.01	1060	(000365)	6.09
(000976)	6.03	1065	(000366)	6.10
(000977)	6.11	1060	(000361)	6.05
(000978)	6.13	1065	(000362)	6.06
(000979)	6.15	1070	(000363)	6.07
(000980)	6.17	1075	(000364)	6.08
(000981)	7.01	1740	(000371)	7.11
(000982)	7.03	1745	(000372)	7.12
(000983)	7.13	1840	(000367)	7.07
(000984)	7.15	1845	(000368)	7.08
(000985)	7.17	1750	(000369)	7.09
(000986)	7.19	1755	(000370)	7.10
(000987)	7.21	31	750	3.07
(000988)	8.01	32	(000374)	7.23
(000989)	8.02	33	(000380)	7.24
(000990)	8.04	34	(000383)	8.03
(000991)	8.07		(000381)	7.24
(000992)	8.08	36	(000390)	
(000993)	8.09	35	(000385)	8.05
(000994)	8.10	100	(000394)	8.11
(000995)	8.16	200	(000395)	8.12
(000996)	8.20	300	(000396)	8.13
(000997)	8.22	400	(000397)	8.14

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[illegible]

[illegible]

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 REFERENCES (SOURCE SEQUENCE NO. AND PAGE/BOX)

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(000579)	14-10		(000578)	14-08	
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(000581)	15-03		(000580)	15-01	
(000582)	15-05	1301			
(000583)	15-05		(000581)	15-03	
(000584)	15-07		(000582)	15-05	
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(000595)	16-23	304	337	8-21	
(000596)	16-23	305	337	8-21	
(000597)	16-27	306	337	8-21	
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(000604)	17-13	403	334	9-01	
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(000620)	18-20	423	334	9-01	
(000621)	18-22	424	334	9-01	
(000622)	18-01	426	334	9-01	
(000623)	18-03	1426	(000622)	18-07	

(000033)	18.18	421	339	9.01
(000067)	18.18	422	339	9.01
(000091)	18.20	423	339	9.01
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(000098)	18.01	426	339	9.01
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1002477	89.74	1002476	89.72
1002478	89.76	1002477	89.74
1002479	89.78	1002478	89.76
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1002483	89.86	1002482	89.84
1002484	89.88	1002483	89.86
1002485	89.90	1002484	89.88
1002486	89.92	1002485	89.90
1002487	89.94	1002486	89.92
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1002489	89.98	1002488	89.96
1002490	90.00	1002489	89.98
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1002493	90.06	1002492	90.04
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1002499	90.18	1002498	90.16
1002500	90.20	1002499	90.18
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1002504	90.28	1002503	90.26
1002505	90.30	1002504	90.28
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1002523	90.66	1002522	90.64
1002524	90.68	1002523	90.66
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1002529	90.78	1002528	90.76
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1002534	90.88	1002533	90.86
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1002536	90.92	1002535	90.90
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1002538	90.96	1002537	90.94
1002539	90.98	1002538	90.96
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1002541	91.02	1002540	91.00
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1002573	91.66	1002572	91.64
1002574	91.68	1002573	91.66
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1002580	91.80	1002579	91.78
1002581	91.82	1002580	91.80
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1002583	91.86	1002582	91.84
1002584	91.88	1002583	91.86
1002585	91.90	1002584	91.88
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1002587	91.94	1002586	91.9

1002404 89.07 (002408) 89.05

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE PACH (IDAY,IMD,IBIT,JARY,*)

(002423) 91.01 PACH (002397) 88.28-X (002402) 88.35-X
(002427) 91.04 (002426) 91.02
(002428) 91.07 (002427) 91.05
(002429) 91.10 (002428) 91.08
(002430) 91.12 (002429) 91.10
(002431) 91.16 (002430) 91.14
(002432) 91.19 (002431) 91.17

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - INTRODUCTORY COMMENTS

CHART TITLE - SUBROUTINE PLOTRCV

(002450) 94.01 PLOTR (001355) 42.20-X (001357) 42.22-X (001359) 42.24-X (001361) 42.26-X
(002452) 94.05 10
(002453) 94.06 100 (002450) 94.01 (002451) 94.02
(002454) 94.06 500 (002451) 94.02
(002457) 94.07 4 (002453) 94.03
(002470) 94.16 12 (002456) 94.06
(002477) 94.21 (002476) 94.19
(002479) 94.24 (002478) 94.22
(002482) 95.01 11 (002479) 94.24
(002491) 95.06 (002493) 95.07
(002493) 95.07 50
(002494) 95.08 100 (002487) 95.03
(002500) 95.10 665 (002495) 95.09
(002504) 95.12 (002507) 95.21

9
215

10025071 95.21 36

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE DCFAR(LIN,ICUT)

1002501 97.01 DCFAR (001449) 45.18-X (001451) 45.20-X
 1002503 97.04 (002527) 97.05
 1002507 97.05 100
 1002508 97.06 (002533) 97.16
 1002511 97.10 (002530) 97.08
 1002512 97.11 (002531) 97.10
 1002514 97.13 (002533) 97.13
 1002515 97.10 200

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE DIGT(LIN,ICUT)

1002517 99.01 DIGT(LIN,ICUT) (001407) 44.05-X (001409) 44.07-X
 1002520 99.03 (002555) 99.08
 1002521 99.05 (002553) 99.06
 1002523 99.06 200
 1002525 99.08 100

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE LUTPL(X,Y)

1002527 101.01 LUTPL (001373) 43.03-X
 1002529 101.02 LUTPL (001375) 43.05-X
 1002532 101.05 622 101.07
 622 101.07 10

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE INGT(LIN,ICUT)

1002536 103.01 INGT (001385) 43.15-X (001387) 43.17-X
 1002537 103.02 INGT
 1002538 103.05 (002546) 103.06
 1002540 103.06 10

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE ATD(LIN,ICUT)

1002541 105.01 ATD (001262) 40.13-X (001264) 40.15-X

022 101.07 10

EXHIBIT FILE - NLN-PROCEEDURAL STATEMENTS

SECRET FILE - SUBROUTINE INUTCK(OUN,OLUT)

Year	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	2037-38	2038-39	2039-40	2040-41	2041-42	2042-43	2043-44	2044-45	2045-46	2046-47	2047-48	2048-49	2049-50	2050-51	2051-52	2052-53	2053-54	2054-55	2055-56	2056-57	2057-58	2058-59	2059-60	2060-61	2061-62	2062-63	2063-64	2064-65	2065-66	2066-67	2067-68	2068-69	2069-70	2070-71	2071-72	2072-73	2073-74	2074-75	2075-76	2076-77	2077-78	2078-79	2079-80	2080-81	2081-82	2082-83	2083-84	2084-85	2085-86	2086-87	2087-88	2088-89	2089-90	2090-91	2091-92	2092-93	2093-94	2094-95	2095-96	2096-97	2097-98	2098-99	2099-00	2100-01	2101-02	2102-03	2103-04	2104-05	2105-06	2106-07	2107-08	2108-09	2109-10	2110-11	2111-12	2112-13	2113-14	2114-15	2115-16	2116-17	2117-18	2118-19	2119-20	2120-21	2121-22	2122-23	2123-24	2124-25	2125-26	2126-27	2127-28	2128-29	2129-30	2130-31	2131-32	2132-33	2133-34	2134-35	2135-36	2136-37	2137-38	2138-39	2139-40	2140-41	2141-42	2142-43	2143-44	2144-45	2145-46	2146-47	2147-48	2148-49	2149-50	2150-51	2151-52	2152-53	2153-54	2154-55	2155-56	2156-57	2157-58	2158-59	2159-60	2160-61	2161-62	2162-63	2163-64	2164-65	2165-66	2166-67	2167-68	2168-69	2169-70	2170-71	2171-72	2172-73	2173-74	2174-75	2175-76	2176-77	2177-78	2178-79	2179-80	2180-81	2181-82	2182-83	2183-84	2184-85	2185-86	2186-87	2187-88	2188-89	2189-90	2190-91	2191-92	2192-93	2193-94	2194-95	2195-96	2196-97	2197-98	2198-99	2199-00	2200-01	2201-02	2202-03	2203-04	2204-05	2205-06	2206-07	2207-08	2208-09	2209-10	2210-11	2211-12	2212-13	2213-14	2214-15	2215-16	2216-17	2217-18	2218-19	2219-20	2220-21	2221-22	2222-23	2223-24	2224-25	2225-26	2226-27	2227-28	2228-29	2229-30	2230-31	2231-32	2232-33	2233-34	2234-35	2235-36	2236-37	2237-38	2238-39	2239-40	2240-41	2241-42	2242-43	2243-44	2244-45	2245-46	2246-47	2247-48	2248-49	2249-50	2250-51	2251-52	2252-53	2253-54	2254-55	2255-56	2256-57	2257-58	2258-59	2259-60	2260-61	2261-62	2262-63	2263-64	2264-65	2265-66	2266-67	2267-68	2268-69	2269-70	2270-71	2271-72	2272-73	2273-74	2274-75	2275-7
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FORM 1171 - NON-FEDERAL STATES MEMBS

1141 1116: - 10340012N2 ATUL(X,IX)

0002601	105.01	812.6	1001242	40.13-X	0001264	40.15-X
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0002604	405.15		1002635	105.13		
0002605	105.16	36	1002630	105.11		
0002606	105.17	31				
0002607	105.16	32	0002638	105.15	0002639	105.16
0002608	105.18	40				
0002609	105.23		0002646	105.21		
0002613	105.25	110A	0001286	40.17-X	0001288	40.19-X
0002621	105.36		0002643	105.31		
0002662	105.31	00				

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(002676)	107.01	K01PL	(001377)	43.07-X
(002680)	107.02	K01PL	(001379)	43.09-X
(002681)	107.03		(002691)	107.07
(002691)	107.07	100		

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE D01FL(X,Y)

(002694)	109.01	D01FL	(001489)	46.27-X
(002701)	109.02		(002703)	109.05
(002701)	109.03		(002703)	109.06
(002703)	109.04	100		
(002704)	109.06	D01FL	(001491)	46.29-X
(002707)	109.07	ECMPL		
(002709)	109.10	150	(002708)	109.07
(002710)	109.11		(002724)	109.18
(002713)	109.13		(002721)	109.16
(002711)	109.16	300		
(002714)	109.18	200		

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE H01(X,Y)

(002722)	111.01	H01		
(002730)	111.03		(002744)	111.06
(002744)	111.06	100		

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - SUBROUTINE ECM(X,Y)

(002761)	113.01	ECM	(001515)	47.21-X	
(002763)	113.03	5	(002766)	113.03	
(002773)	113.06		(002775)	113.11	
(002775)	113.11	100			
(002784)	113.15	200	(002776)	113.13	
(002764)	113.18		(002785)	113.16	
(002765)	113.21		(002787)	113.19	
(002745)	114.01	240	(002792)	113.24	
(002746)	114.02	300	(002783)	113.14	(002790) 113.22 (002794) 113.25
(002749)	114.05		(002801)	114.06	
(002801)	114.06	301			
(002804)	114.08	310	(002796)	114.02	(002821) 114.24
(002806)	114.10		(002815)	114.15	
(002815)	114.15	500			
(002817)	114.16		(002816)	114.16	
(002819)	114.21		(002818)	114.19	
(002821)	114.24		(002820)	114.22	

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(002851) 116.01 0165F (001493) 44.31-X
(002852) 116.02 0165F (002771) 113.06-X
(002853) 116.04 50 (002832) 116.01
(002854) 116.07 (002840) 116.09
(002855) 116.09 100 (002850) 116.13
(002856) 116.12
(002857) 116.13 102 (002807) 114.11-X
(002858) 116.15 0165F (002774) 113.09-X
(002859) 116.17 (002869) 116.26
(002860) 116.24 (002861) 116.19
(002862) 116.23 (002860) 116.24
(002863) 116.24 300
(002864) 116.24 400

CHART TITLE - MAX-PR-LOCAL STATEMENTS

CHART TITLE - SUBROUTINE TARGET(X,Y)

(002865) 116.01 100001 (001490) 47.01-X
(002866) 116.02 100001 (001498) 47.03-X
(002867) 116.04 10 (002868) 118.01
(002869) 116.06 (002900) 118.09
(002870) 116.09 50 (002845) 118.06
(002871) 116.10 40
(002872) 116.12 44 (002907) 119.01
(002873) 116.13 (002943) 119.16
(002874) 116.14 (002942) 119.15
(002875) 116.15 (002944) 119.13
(002876) 116.16 400
(002877) 116.17 400 (002930) 119.14

CHART TITLE - MAX-PR-LOCAL STATEMENTS

CHART TITLE - SUBROUTINE CLUTTER(X,Y,GA,SEL,*)

(002878) 121.01 CLUTTR (001501) 47.06-X
(002879) 121.02 (002994) 121.09
(002880) 121.04 100 (002995) 121.10
(002881) 121.13 (003006) 121.16
(002882) 121.14 (003007) 121.17
(002883) 121.15 (003008) 121.22
(002884) 121.22 60 (003009) 123.00

CHART TITLE - MIN-PRECEDENCE STATEMENTS

CHART TITLE - SUBROUTINE	CLUTM(11,17,642,661,0)
(002477) 121.01 CLUTM	1001501) 47.00-2
(002478) 121.01	1002994) 121.00
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(002480) 121.15	1002995) 121.10
(002481) 121.15	1003006) 121.10
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(002485) 121.17	1003005) 121.22
(002486) 121.22	
(002487) 122.04	1003061) 123.08
(002488) 122.05	1003056) 123.06
(002489) 122.05	1003055) 123.05
(002490) 122.07	1003020) 122.06
(002491) 122.09	1003020) 122.06
(002492) 122.13	1003019) 122.05
(002493) 122.15	1003026) 122.14
(002494) 122.16	1003026) 122.14
(002495) 122.20	1003031) 122.17
(002496) 122.25	1003040) 122.21
(002497) 122.25	1003029) 122.15
(002498) 123.03	
(002499) 123.05	

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(UW3081) 123-06 (UW3101) 125-10
(UW3092) 123-01 100 (UW3089) 125-05
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CHART TITLE - SUBROUTINE LUNUS(X,Y)

(UW3105) 127-01 LUNUS (001513) 47-19-X
(UW3112) 127-02 (003123) 127-05
(UW3123) 127-05 400

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CHART TITLE - FUNCTION IBGL(X)

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CHART TITLE - FUNCTION PRAND(NTYPE)

UCTRAN70 132-01 10 (003166) 132-14 UCTRAN54 133-10
250 132-06 (003190) 132-03
UCTRAN75 132-07 200 250 132-06
UCTRAN76 132-09 300 250 132-06
300 132-11 400 250 132-06
(UW3101) 132-12 400 250 132-06
(UW3101) 132-13 20 (003166) 132-13
400 132-14 400 400 132-16
UCTRAN76 133-01 500 250 132-06
UCTRAN76 133-03 000 250 132-06
UCTRAN76 133-09 700 250 132-06

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CHART TITLE - FUNCTION IPACK(ISTR, IDATA, IMORD)

CHART TITLE - FUNCTION IBGCLR

CHART TITLE - NON-PROCEDURAL STATEMENTS

CHART TITLE - FUNCTION KRANG(NTYPE)

UCRNY04 132.01 10 (003166) 132.14 UCRNY04 133.10
250 132.06 (003150) 132.03
UCRNY15 132.07 200 250 132.06
UCRNY16 132.09 300 250 132.06
320 132.11 400 250 132.06
(003161) 132.12 400 250 132.06
(003167) 132.15 20 (003164) 132.13
400 132.19 405 400 132.16
UCRNY04 133.01 500 250 132.06
UCRNY05 133.03 600 250 132.06
UCRNY07 133.05 700 250 132.06
UCRNY10 133.07 800 250 132.06
UCRNY12 133.09 801 UCRNY10 133.07

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CHART TITLE - SUBROUTINE DBLX(INST, NMOD, X, Y)

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CHART TITLE - NON-PAGEJOURNAL STATEMENTS

CHART TITLE - FUNCTION IPUDIST.MBILES.IMOROI

CHART TITLE - BLOCK DATA

CHART TITLE - NON-PAGEJOURNAL STATEMENTS

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UNCLASSIFIED - NON-PROSECUTED STATEMENTS

UNCLASSIFIED - NON-PROSECUTED STATEMENTS

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EXHIBIT III - NON-PROSECUTOR STATEMENTS

$$NUNLIN(A, \#)$$
[illegible]

EXHIBIT 111111 - NON-PROCEDURAL STATEMENTS

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(=ATY IYYI: - SUBJUTINE  HWDET(XIN,XOUT)

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003712	156.04	10	(003709) 156.01	(003709) 156.03

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1003834	163.07	100	1003831 163.05
1003835	163.08	94	1003833 163.06
1003834	163.10	200	
1003840	163.14		1003851 163.19
1003844	163.16	350	1003846 163.14
1003850	163.17	351	1003848 163.15
1003851	163.18	300	
1003860	163.20	500	1003860 163.11

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1003871	165.01	CUMSF	1001473 46.11-X
1003873	165.02	CUMCM	1001477 46.15-X
1003875	165.04	10	1003872 165.01
1003884	165.06	20	1003879 165.06
1003884	165.04	30	1003881 165.07

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(001475)	46-13-X
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(001477)	46-15-X
(003872)	165-01
(003879)	165-06
(003861)	165-07

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C 169.04		C 169.05			
C 169.06	CUM2				
C 169.06	1000	C 169.05			
C 169.11		C 169.17			
C 169.14		C 169.12			
C 169.16	50				
C 169.16		C 169.14			
C 170.01	CUTLUM	(001270)	40.01-X	(001272)	40.03-X
C 170.04		C 170.02			
C 170.07		C 170.12			
C 170.09	70				
C 170.09		C 170.10			
C 170.11	EG				
C 170.14	PDF	(001274)	40.05-X	(001276)	40.07-X
(003981) 170.16		(003980) 170.16			
C 170.22		C 171.03			
C 170.24		C 171.01			
C 171.01	90				
C 171.03	100				
C 171.04	200	C 170.13			
C 171.06		(004600) 171.06			
C 171.09		C 171.10			
C 171.10	300				

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K 173.01	RTUPDB	(001218)	38.09-X					
K 173.02	RTUPM	(001228)	38.19-X					
K 173.04	RTOPM2	(001230)	38.21-X					
K 173.06	XYTUM	(001222)	38.13-X					
K 173.08	XYTOM2	(001224)	38.15-X					
K 173.10	XYTUDB	(001220)	38.11-X	(001226)	38.17-X			
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(004042) 173.17		R 173.15						
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K 173.26		(004049) 173.24						
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(004065) 174.17		(004066) 174.18						
(004068) 174.18	220							
(004070) 174.21		(004077) 174.29						
(004073) 174.24		(004072) 174.22						
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b	176.07	20						
c	176.08	30	b	176.06				
d	176.10	50	b	176.06	b	176.08		

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1	178.02	10	1	178.03	1	178.07	1	178.09
1	178.07	20						
1	178.08	30	1	178.06				
1	178.10	50	1	178.06	1	178.08		

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UCTSCN18	160.05	10		
UCTSCN36	160.06		UCTSCN56	180.17
UCTSCN48	160.12		UCTSCN56	180.16
UCTSCN54	160.15	50		
UCTSCN56	160.17	70	UCTSCN48	180.12
UCTSCN59	160.17		UCTSCN75	181.04
UCTSCN75	151.04	75		
UCTSCN64	181.08		UCTSCN14	181.22
UCTSCN03	161.16	02	UCTSCN01	181.09
UCTSCN14	161.22	65	UCTSCN03	181.01
UCTSCN18	162.06	87	UCTSCN12	181.21
UCTSCN32	182.04		UCTSCN57	182.18
UCTSCN48	182.12	90	UCTSCN35	182.10
UCTSCN57	162.16	95	UCTSCN37	182.02
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UCTSP040	180.04	3000	UCTSP009	180.02

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 (004322) 186.03
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 UC7ANT20 189.05 UC7ANT25 189.06
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 UC7ANT43 189.27 60 UC7ANT40 189.24
 UC7ANT45 189.29 UC7ANT46 190.01
 UC7ANT46 190.01 65
 UC7ANT50 190.05 75 UC7ANT47 190.02
 UC7ANT52 190.07 UC7ANT53 190.08
 UC7ANT53 190.08 80
 UC7ANT56 190.13 10 UC7ANT56 190.10
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2420	196.01	15	2380	195.20
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2520	196.09		2510	196.07
2570	196.10	350	2690	196.14
2620	196.13	401	2610	196.12
2700	196.15	402	2610	196.12
2730	196.16	450	2790	196.18
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1040532	196.05	50
1040601	196.04	TSAPAT
1040611	198.10	20
1040651	198.13	30
1040694	198.17	699
1040702	196.16	700
1040861	199.01	100
1040894	199.04	130
300	199.07	
1040901	199.08	200
1040910	199.11	
1040974	199.14	999
1040977	199.16	
1040979	199.17	1010
1040981	199.20	
1040982	199.22	
1040987	200.03	1001
1040991	200.07	
1040993	200.10	500
1040995	200.10	
		(004645) 198.13 (004643) 199.03

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(000000)	198.04	TSRAT	(001000)	47.11-4
(000001)	198.10	20		
(000002)	198.13	30		
(000003)	198.17	099		
(000004)	198.16	700		
(000005)	199.01	100	(000005)	198.13
(000006)	199.09	120		
(000007)	199.07			
(000008)	199.08	200		
(000009)	199.11			
(000010)	199.14	999		
(000011)	199.10			
(000012)	199.17	1010		
(000013)	199.20			
(000014)	199.22			
(000015)	200.03	1001		
(000016)	200.07			
(000017)	200.10	500		
(000018)	200.10			
(000019)	200.10			
(000020)	200.08			

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(000730)	202.00	10	(000725)	202.03
(000730)	202.10	75	(000731)	202.07
(000730)	202.12		(000739)	202.13
(000739)	202.13	80		
(000708)	202.25	201	(000752)	202.19
(000823)	202.24	802	1110	202.26
(000778)	203.03		(000795)	203.16
(000784)	203.07		(000782)	203.04
(000790)	203.12	101	(000760)	203.09

(000772) 202.28

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1008551	206.04		(1004854) 206.07
1004856	206.10		(100-859) 206.11
1004854	206.11	200	
1000	206.16	222	1982 206.14
1004881	206.27		1881 206.24
1980	207.02	101	1970 207.01
1004891	207.03		(100-899) 207.06
1004894	207.06	300	
2103	207.10	400	2071 207.07
2103	207.11	102	1476 207.01
2107	207.14		2106 207.12
2106	207.16		2107 207.14
2112	207.14		2111 207.17
2113	207.21		- 2112 207.19
2114	207.23		2113 207.21
2116	207.25		2130 208.07
2122	208.01		2121 207.26
2123	208.03		2122 208.01
2124	208.05		2123 208.03
2130	208.07	330	
2132	208.11	350	2102 207.10
2132	208.11		2131 208.08
1004891	208.12	TSARY1	(1001415) 44.13-X
1004891	208.13	TSARM1	
1004892	208.17	60	2135 208.14
1004894	208.14		(1004451) 208.20

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